PRUSAMENT

prusament.com



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MANUFACTURED IN EUROPEAN UNION AND USA

We were not satisfied with the quality of the filaments on the market. So we decided to make our own! As an award-winning 3D printer manufacturer, Prusa Research meets high manufacturing standards and guarantees the highest quality of its filaments and resins.

±0.02 MM MANUFACTURING PRECISION FOR MOST MATERIALS

For us, the ±0.02 mm precision is the maximum limit, not an average. For example, 98.7% of our PLA spools fit in ±0.01 mm deviation across the whole spool length!

PREMIUM-GRADE MATERIALS AND THOROUGH TESTING

The whole manufacturing process is closely monitored and tested – string diameter, color consistency, and mechanical properties – to ensure that every spool is perfect.

BIRTH CERTIFICATE FOR EVERY SPOOL AND BOTTLE

We are the only manufacturer that allows customers to fully inspect the parameters of every filament spool. Just scan a QR code on the spool to see all the details online.

PERFECT WINDING & COLOR CONSISTENCY

During the manufacturing process, an automatic system constantly monitors consistent color tone and ensures a perfect winding of each filament spool.

We introduced our own in-house brand of filament, Prusament, back in 2018. The main reason is that we wanted to have control over all the factors that lead to a succesful print - and the quality of filament is a very important factor, almost as important as the 3D printer itself.

We bought a number of filament manufacturing lines and did something what's very common here – we took them apart and started modifying them because right from the start, we wanted to achieve a consistent diameter, perfect winding and color consistency of our product. We were the very first 3D printer manufacturer with its own filament production lines! In this detailed portfolio you'll find all of our filaments and resins, so you can choose the one that best suits your next printing project.

Josef Prusa





NEW SMART SPOOL WITH NFC INSIDE

Prusament filaments are wound on a redesigned spool that introduces several improvements for an even better printing experience, starting in October 2025.
The new spool features a simple locking mechanism that makes disassembly quick and easy, allowing effortless refills. It also stays secure during filament drying, even at higher temperatures. And with its slimmer dimensions, the spool ensures compatibility with a wide range of multi-color and multi-material printing systems.





OPENPRINTTAG

Every new Prusament spool now comes with a fully rewritable NFC tag powered by the OpenPrintTag standard. It’s designed to work across brands and ecosystems. It is free to use, free to extend, and open for anyone to build upon. Most importantly, it works entirely offline. All essential data is stored directly on the tag. Your printer can recognize the spool instantly, with no dependence on cloud services or vendor lock-ins. The OpenPrintTag is manufactured in two variants: Standard and HT, which works at temperatures up to 150 °C.

SCAN THE QR CODE
FOR MORE DETAILS

PRUSAMENT

PLA

EASIEST MATERIAL TO PRINT

An inexpensive material suitable for beginners and advanced users alike. It is capable of printing detailed models, figures, and quick prototypes that don't require increased mechanical, chemical, or temperature resistance. PLA is the most widely used filament, known for its great looks and ease of printing. It is an excellent choice for large objects because of its low thermal expansion, which results in minimal warping. At the same time, its low melting temperature makes it suitable for small parts as well. While PLA may not be as tough or durable as some advanced materials, its versatility makes it ideal for a range of applications, including large objects, miniatures, concept models, and prototypes that don't need to be extremely durable.

- → Easy to print
- → Suitable for prints of any size
- → Hard
- → Low warping

- → Brittle
- → Poor high-temperature resistance
- → Difficult to sand (hard material, melts easily)

Heatbed: **50 ± 10 °C**

Nozzle: **215 ± 10 °C**



This filament is also found in heavy industry: Tatra Metalurgie uses PLA prints to create model parts and corrective components for casting models and core boxes.

SCAN THE QR CODE FOR MORE DETAILS

Sakura Pink

1 KG



Noctua Beige

BRAND COLOR | 1 KG



Noctua Brown

BRAND COLOR | 1 KG





Natural

1 KG



Pristine White

1 KG 2 KG REFILL



Pearl White

SILK 1 KG



Vanilla White

1 KG REFILL



Pineapple Yellow

1 KG



Oh My Gold

SILK 1 KG



Viva La Bronze

SILK 1 KG



Prusa Orange

1 KG 2 KG



Lipstick Red

1 KG 2 KG



Blood Red

1 KG



Galaxy Red

GLITTER 1 KG 2 KG



Ms. Pink

SILK 1 KG



Galaxy Purple

GLITTER 1 KG 2 KG



Royal Blue

SILK 1 KG



Azure Blue

1 KG 2 KG REFILL



Chalky Blue

1 KG



Pistachio Green

1 KG



Prusa Pro Green

1 KG



Lime Green

SILK 1 KG



Simply Green

1 KG



Electric Green

BRAND COLOR 1 KG



Emerald Green

BRAND COLOR 1 KG



Opal Green

GLITTER 1 KG



Galaxy Green

GLITTER 1 KG



Army Green

1 KG 2 KG



Mystic Green

POLYCHROMATIC 1 KG



Coppercabana

SILK 1 KG



Mystic Brown

POLYCHROMATIC 1 KG



Gentleman's Grey

1 KG



Marble Grey

GLITTER 1 KG



Gravity Grey

1 KG 2 KG



Galaxy Silver

GLITTER 1 KG REFILL



My Silverness

SILK 1 KG



Pearl Mouse

1 KG



Anthracite Grey

1 KG



Prusa Galaxy Black

GLITTER 1 KG 2 KG REFILL



Jet Black

1 KG 2 KG REFILL



PRINT REFILL REPEAT



REUSE PRUSAMENT SPOOL SIDES
OVER AND OVER TO INFINITY!
∞

PLA COLORMIX & CMYK

COMBINE ANY FILAMENTS INTO STUNNING NEW COLOR TONES

The ColorMix is a feature that allows you to create additional color tones from the loaded filaments using any multi-color printer.

The Prusament PLA ColorMix bundle includes five basic colors (Cyan, Magenta, Yellow, White, and Black) and two transparent glitters (Gold and Silver), that can be easily combined to create up to 105 color tones. The filaments are semi-translucent and therefore optimized for blending. They provide fluent color shades mixed from the color bases and work best when used together. The glitters can be mixed into any saturated PLA to add a shimmering effect without desaturating the color.

The Prusament PLA CMYK offers a brighter and more saturated alternative. They can be further combined with any Prusament PLA, as they're all opaque.

ColorMix

- covers the whole spectrum + greyscale
- smooth blending, best mixing effect
- semitranslucent

CMYK

- bright saturated colors
- opaque, inner structure not showing
- can be combined with any PLA

ColorMix White
1 KG



ColorMix Yellow
1 KG

ColorMix Gold Glitter
GLITTER 1 KG



ColorMix Magenta
1 KG



ColorMix Cyan
1 KG



ColorMix Silver Glitter
GLITTER 1 KG



ColorMix Black
1 KG



ColorMix Bundle
BUNDLE



ColorMix Bundle
BUNDLE



CMYK Yellow
1 KG



CMYK Magenta
1 KG



CMYK Cyan
1 KG



CMYK Bundle
BUNDLE



PRUSAMENT

PLA HIGH SPEED

A PERFECT CHOICE FOR RAPID PROTOTYPING

Prusament PLA High Speed is a material engineered to have a higher Melt Flow Index (MFI) and exhibit excellent shear-thinning behavior. In other words, as the extruder pushes the plastic with a higher force (faster), its viscosity drops significantly, allowing for a smooth, consistent flow even at extreme volumetric speeds. This material can save up to 20–40% of print time, when compared to regular Prusament PLA. It is suitable for making rapid prototypes before using expensive materials, plus it has high layer-to-layer adhesion. This significantly improves its resistance in the Z-axis and makes the material more suitable for quick replacement parts.

- → The fastest Prusament you can print with
- → Improved layer-to-layer adhesion
- → Homogeneous glossy surface finish
- → Little to no warping
- → Easy to print, just like the regular PLA

- → Poor heat resistance, similar to PLA. For more resistant materials, use PETG or PC Blend.
- → Some stringing occurs during printing (can be eliminated with lighter or heat gun)

Heatbed: **50 ± 10 °C**
Nozzle: **210 ± 20 °C**



High Speed Pristine White
1KG



High Speed Prusa Orange
1KG



High Speed Lipstick Red
1KG



High Speed Gravity Grey
1KG



High Speed Prusa Galaxy Black
GLITTER 1KG

PRUSAMENT

PLA LIGHTWEIGHT

PERFECT CHOICE FOR AIRCRAFT, COSPLAY, AND MORE

Prusament PLA Lightweight is an actively foaming PLA designed for prints where low mass matters. In the nozzle, heat activates additives that expand the extruded polymer, allowing the same spool mass to produce substantially more printed volume than conventional PLA. This means it is possible to print 2–3 times more models from one spool than from the same weight of regular PLA. This material offers up to 65% lower weight than regular PLA, making it suitable for RC models, drones, costume parts, floaters, and other applications where every gram counts.

- → 65% lighter than regular PLA
- → Good thermal insulation properties
- → Highly attractive matte surface finish
- → Subtle colors
- → Floats well on water

- → Significant stringing caused by foaming agent (every lightweight PLA does this)
- → Prone to scratches
- → Low thermal resistance
- → Hygroscopic material (requires drying)

Heatbed: **50 ± 10 °C**

Nozzle: **215–235 °C**



Lightweight Natural

MATTE 1KG



Lightweight Coral Orange

MATTE 1KG



Lightweight Army Green

MATTE 1KG



Lightweight Chocolate Brown

MATTE 1KG



Lightweight Galaxy Black

GLITTER 1KG

PLA RECYCLED

MADE OF 100% RECYCLED PRUSAMENT

Prusament PLA Recycled is our own in-house filament with ±0.05 mm manufacturing tolerance. 100% of the material consists of recycled Prusament PLA materials, so every batch has a different color. PLA is the easiest material to print. It is inexpensive and suitable (not only) for beginners. It is capable of printing detailed models, figures, and quick prototypes that don't require high mechanical, chemical, or temperature resistance. PLA is the most widely used filament, known for its great looks and ease of printing. It is an excellent choice for large objects because of its low thermal expansion, which results in minimal warping. At the same time, its low melting temperature makes it suitable for small parts as well. While PLA may not be as tough or durable as some advanced materials, its versatility makes it ideal for a range of applications, including large objects, miniatures, concept models, and prototypes that don't need to be extremely durable.

- → Easy to print
- → Suitable for prints of any size
- → Hard
- → Low warping

- → Different color with every batch
- → Brittle
- → Low-temperature resistance
- → Difficult to sand (hard material, melts easily)

Heatbed: **50 ± 10 °C**

Nozzle: **215 ± 10 °C**





PRUSAMENT

rPLA NATURAL PIGMENTS

COLORED WITH PROCESSED ORGANIC WASTE

Prusament rPLA Natural Pigments is our own in-house recycled PLA filament with ±0.03 mm manufacturing tolerance and natural pigment additives. The filament is made of PLA parts manufacturing waste provided by our external supplier. No artificial pigment is added, the coloring of this Prusament comes from processed organic waste, such as red algae. The organic additives create a noticeable scent during printing. The Prusament rPLA Natural Pigments has mechanical properties similar to regular PLA, but it is slightly more brittle and hygroscopic. In general, PLA is used for various aesthetic models, prototypes, and other visual parts. With Prusament rPLA Natural Pigments, these parts can be made with significantly lower ecological impact. Last but not least, the natural pigments give rPLA pleasant subtle colors, perfectly suitable for various home decor and other aesthetic purposes.

- → Easy to print
- → Suitable for prints of any size
- → Unique, pleasant subtle colors
- → No artificial pigments added
- → Low warping
- → Eco-friendly

- → Brittle
- → Low-temperature resistance
- → Color may vary slightly depending on natural pigments
- → Slightly hygroscopic (absorbs moisture)
- → Noticeable (but non-toxic) smell

Heatbed: **50 ± 10 °C**

Nozzle: **205 ± 10 °C**



Rissoto Pigment

1 KG



Corn Pigment

1 KG



Wine Pigment

1 KG



Algae Pigment

1 KG

PRUSAMENT

WOODFILL

FILLED WITH WOOD POWDER

The Prusament Woodfill is an easy-to-print filament filled with wooden particles that give the material a natural color and attractive matt surface. This material resembles wood in multiple aspects: it looks like wood, smells like wood, feels like wood, and may slightly sound like wood when knocked on. It can even be stained like regular wood to highlight the texture. Most filaments filled with wood powder (or other similar additive) need a 0.6 mm, or even bigger nozzle for best results. However, the Prusament Woodfill can be easily printed with a standard brass 0.4 mm nozzle. Also, it doesn't have to be dried before printing. Similarly to our rPLA filaments using various waste products, the wood used in this filament comes from the wood manufacturing process waste.

- Easy to print
- Very nice subtle color
- Pleasant odor
- Can be stained like regular wood
- Lightweight
- Wooden particles from a sustainable source

- Brittle
- Poor high-temperature resistance
- Strong adhesion to the PEI surface (separation layer needed)

Heatbed: **60 ± 10 °C**
Nozzle: **195 ± 10 °C**



Birch White
FILLED 1 KG



Linden Light
FILLED 1 KG



Pastel Brown
FILLED 1 KG



Chocolate Brown
FILLED 1 KG



Charcoal Black
FILLED 1 KG

PRUSAMENT

PETG

DURABLE, YET EASY TO PRINT

PETG is one of the most commonly used filaments. Its strength and durability make it an excellent choice for printing various mechanically-stressed parts, such as various holders, or clamps, for example. Due to its excellent layer-to-layer adhesion, PETG prints are ideal for indoor and outdoor waterproof applications. Furthermore, PETG is a tough material with good high-temperature resistance.
The G in the acronym stands for a glycol-modified substance that is present during the manufacturing process. It modifies the properties of PET, so that it's easier to print, less brittle, and clearer when printing with semi-transparent variants. PETG has a low thermal expansion, so even when printing big objects, and without an enclosure, it rarely lifts from the bed and warps. In addition to that, PETG is tougher and less brittle than PLA. It has a healthy amount of flex which can prevent parts from breaking under pressure. We use PETG to print parts for our printers!

- → Good high-temperature resistance
- → Easy to print
- → Low shrinking and warping
- → High strength and durability
- → Easier to sand than PLA (softer, less melting)

- → Worse details than PLA, for example
- → Possibility of stringing
- → Poor bridging characteristics

Heatbed: **80 ± 10 °C**
Nozzle: **250 ± 10 °C**



More than 10% of Lyotrade's freeze-drying machine parts are 3D printed, many of which are made from PETG. This allows them to make changes in design and production quickly.

SCAN THE QR CODE FOR MORE DETAILS

Electric Green
BRAND COLOR 1 KG

Emerald Green
BRAND COLOR 1 KG



Matte Noctua Beige

MATTE BRAND COLOR 1 KG

Matte Noctua Brown

MATTE BRAND COLOR 1 KG

Clear

TRANSPARENT 1 KG 2 KG REFILL



Signal White

1 KG 2 KG REFILL



Mango Yellow

1 KG



Yellow Gold

GLITTER 1 KG



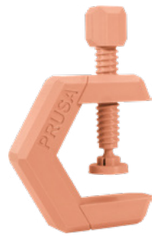
Prusa Orange

1 KG 2 KG



Prusa Orange Transparent

TRANSPARENT 1 KG



Terracotta Light

1 KG



Lipstick Red

1 KG



Carmine Red

GLITTER TRANSPARENT 1 KG



Shimmering Violet

GLITTER 1 KG



Ultramarine Blue

TRANSPARENT 1 KG



Sky Blue

1 KG



Chalky Blue

1 KG



Ocean Blue

1 KG



Prusa Pro Green

1 KG



Jungle Green

1 KG



Pistachio Green

1 KG



Neon Green

TRANSPARENT 1 KG



Urban Grey

1 KG 2 KG REFILL



Anthracite Grey

1 KG 2 KG REFILL



Matte Black

MATTE 1 KG



Prusa Galaxy Black

GLITTER 1 KG 2 KG REFILL



Jet Black

1 KG 2 KG REFILL





Renowned creator Ladislav Ječmínek and his wife Margaret use 3D printing to create custom-made travel vans and electric motorbikes made with 3D printed components. They use Prusament PETG to create durable accessories and body parts for their motorbikes.

SCAN THE QR CODE
FOR MORE DETAILS

PRUSAMENT

PETG ULTRAGLOW

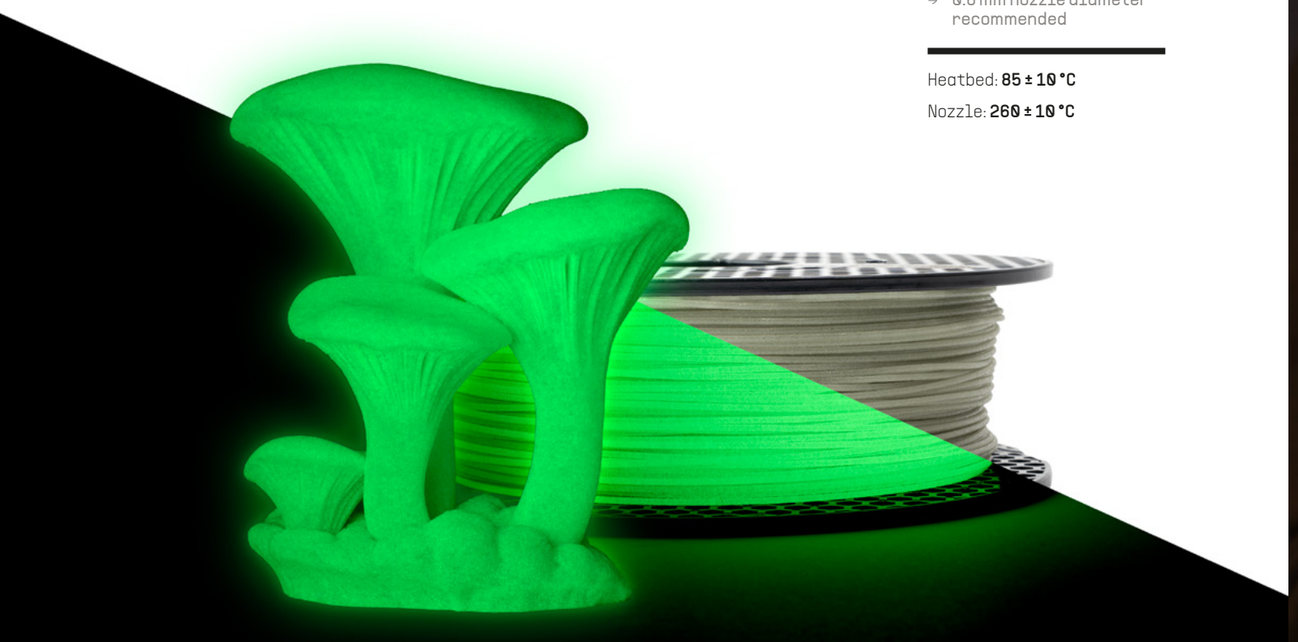
THE BRIGHTEST GLOW-IN-THE-DARK FILAMENT ON THE MARKET

We used the maximum amount of glowing powder we could achieve while maintaining reliable printability and delivering exceptionally bright luminescence. We felt like there was no strong reason to make another mediocre glow-in-the-dark PLA filament, as the market already has plenty. Instead, we did what we do best: we took it up to eleven. When charged, the filament glows strongly for several minutes, then the glow intensity gradually decreases. In total darkness, a weak glow can be visible even after 6–8 hours after charging. This Prusament is filled with strontium aluminate, which is a safe alternative to historically used Phosphorus. It's not toxic and neither radioactive. We deliberately chose PETG as the base polymer for a reason: it's stronger than commonly used PLA and resists higher temperatures, making it suitable for functional parts.

- → Brightest glow-in-the-dark filament on the market
- → Good high-temperature resistance
- → Low shrinking and warping
- → High strength and durability

- → Highly abrasive material: Needs a hardened nozzle, and accelerated wear on printer components should be expected
- → 0.6 mm nozzle diameter recommended

Heatbed: **85 ± 10 °C**
Nozzle: **260 ± 10 °C**





PRUSAMENT

PETG RECYCLED

MADE OF 100% RECYCLED PRUSAMENT

Prusament PETG Recycled is our own in-house filament with ±0.05 mm manufacturing tolerance. 100% of the material consists of shredded Prusament PETG filaments that didn't pass our strict control, so every batch has a different color. Due to its excellent layer-to-layer adhesion, PETG prints are ideal for indoor and outdoor waterproof applications. Furthermore, PETG is a tough material with good high-temperature resistance. PETG has a low thermal expansion, so even when printing big objects, and without an enclosure, it rarely lifts from the bed and warps. In addition to that, PETG is ductile. It has a healthy amount of flex which can prevent parts from breaking under pressure.

- → Good high-temperature resistance
- → Easy to print
- → Low shrinking and warping
- → High strength and durability
- → Easier to sand than PLA (softer, less melting)

- → Different color with every batch
- → Worse details than PLA, for example
- → Possibility of stringing
- → Poor bridging characteristics

Heatbed: **80 ± 10 °C**

Nozzle: **250 ± 10 °C**



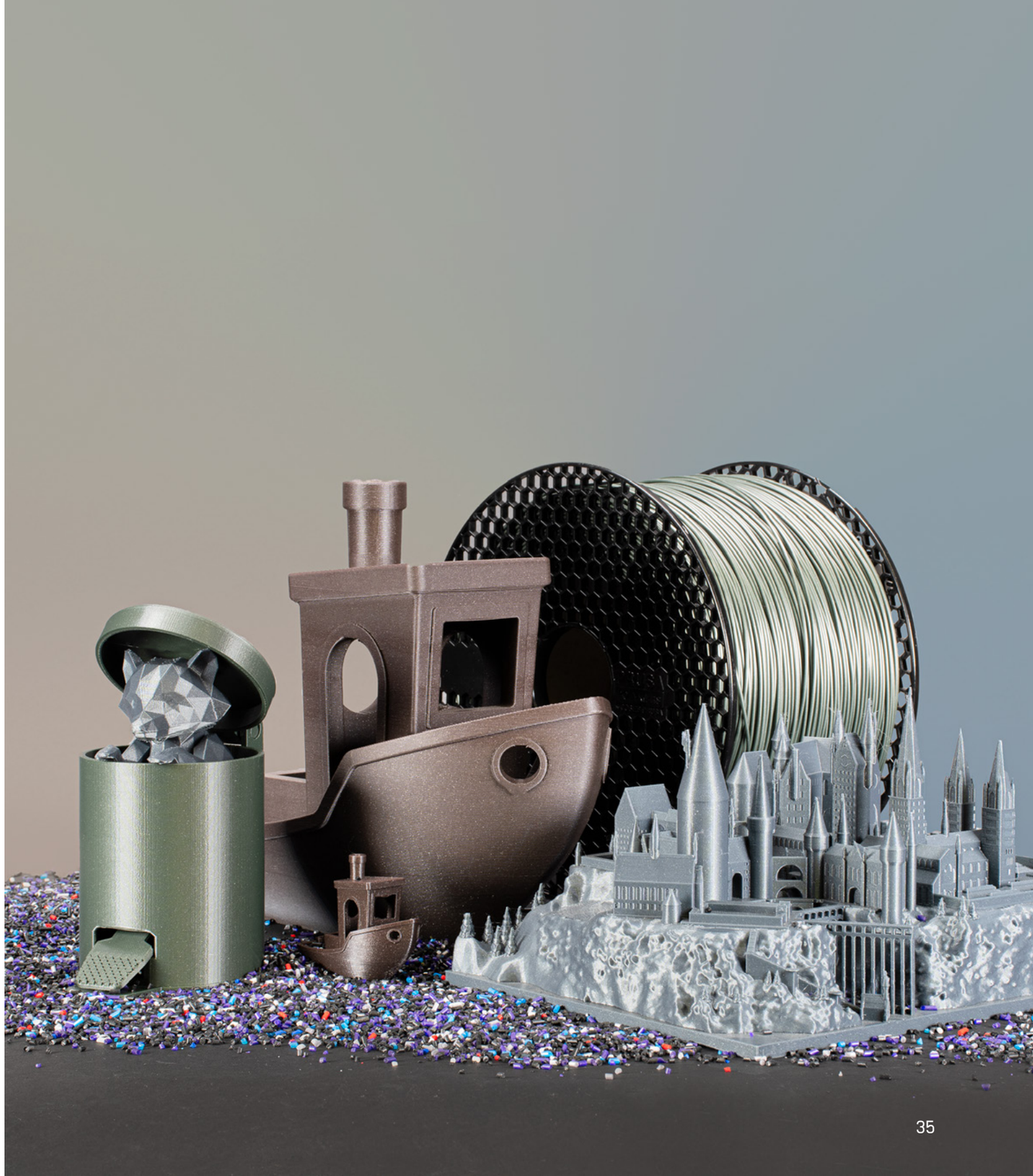
Recycled

2 KG



Recycled Black

2 KG



PRUSAMENT

PETG ESD BLACK

CARBON FIBER REINFORCED DISSIPATIVE MATERIAL

Prusament PETG ESD Black is a carbon fiber-reinforced filament featuring electrostatic dissipative behavior. The carbon fibers add extra properties, such as excellent dimensional stability and improved thermal resistance. Such parameters, combined with a beautiful matte black finish, make this filament an ideal choice for printing structural components in sensitive electronic devices. This includes various housings, assembly jigs, fixtures, or even groundings. Prusament PETG ESD Black is designed to protect valuable projects against irreversible damage caused by electrostatic discharge.

- → Electrostatic dissipative properties
- → Exceptional dimensional stability
- → Improved thermal resistance
- → Great-looking matte black surface finish

- → Requires a hardened nozzle
- → Lower toughness compared to Prusament PETG
- → Hygroscopic material (drying before printing is recommended)

Heatbed: **90 ± 10 °C**

Nozzle: **265 ± 10 °C**

Black

FILLED ESD-SAFE 1 KG



PRUSAMENT

PETG CARBON FIBER

REINFORCED CARBON FIBER COMPOSITE

Prusament PETG Carbon Fiber is our classic Prusament PETG filament reinforced with carbon fiber, which improves some of its mechanical properties and gives it an attractive look. Compared to regular Prusament PETG, this material has better dimensional stability, better temperature resistance, higher modulus of elasticity, and is less prone to stringing. With Prusament PETG Carbon Fiber, you get very durable, professional-looking prints. The carbon fibers inside the filament are obtained by recycling industrial waste from the production process or carbon composites at the end of their life.



Carbon Fiber Black

FILLED 1 KG

- High strength and durability
- Improved temperature resistance
- Improved dimensional stability during printing
- Higher resistance to being deformed elastically
- Low stringing
- Highly attractive matt black surface
- Easy to print
- Almost odorless when printing

- Lower toughness compared to Prusament PETG
- Requires a hardened nozzle
- Worse details than PLA, for example

Heatbed: **90 ± 10 °C**

Nozzle: **265 ± 10 °C**

PRUSAMENT

PETG MAGNETITE 40%

FILLED WITH PARAMAGNETIC PARTICLES

Prusament PETG Magnetite is a material with paramagnetic properties and a nice dark satin appearance. This filament is suitable for making various electronic parts, such as switches, potentiometers, induction loops, electromagnetic shielding, etc. In hobby use, the material can be used for various tools that can be attached to a magnet. Another use can be found in art, design, and toys. Or, it can simply work as a weight.

- → Paramagnetic material
- → High density (heavy material)
- → Visually appealing matt black surface

- → Requires hardened nozzle
- → Lower layer-to-layer adhesion compared to pure PETG
- → Cannot be transformed into a permanent magnet under home conditions

Heatbed: **100 ± 10 °C**

Nozzle: **270 ± 5 °C**



PRUSAMENT

TUNGSTEN 75%

MADE FOR RADIATION SHIELDING

Prusament PETG Tungsten 75% is a highly specialized filament designed mainly for radiation shielding purposes. Tungsten (also known as wolfram) powder inside the PETG filament is a heavy metal that does not react with water and is resistant to oxidation at room temperature. Unlike lead, tungsten is hypoallergenic and non-toxic. This makes it perfectly suitable for creating complex X-ray and gamma-ray radiation-shielding components (not only for medical applications) in an easier and faster way compared to conventional methods.



Tungsten 75%

FILLED 1 KG

- → Radiation shielding material
- → Good chemical resistance
- → Non-reactive
- → Non-toxic
- → Hypoallergenic
- → Highly attractive metallic grey surface
- → Easy to print
- → Easy postprocessing (can be polished as other metal-filled materials)

- → Requires a hardened nozzle
- → Lower toughness compared to Prusament PETG
- → High-density material (less meters of filament per 1 kg)
- → Higher price
- → Not suitable for sintering

Heatbed: **80 ± 10 °C**

Nozzle: **260 ± 10 °C**



PRUSAMENT

PETG V0

CERTIFIED SELF-EXTINGUISHING MATERIAL

PETG V0 is a unique UL-certified self-extinguishing PETG filament. Similar to the regular Prusament PETG, it is a tough material with good thermal resistance. It has universal use, but is especially suitable for housings and insulating parts in electronics, due to its self-extinguishing properties. PETG V0 is not prone to warping, so printing large objects isn't a problem. When our Prusament PETG V0 starts burning, it creates a carbonized crust on the surface that prevents the oxygen from getting in and fueling the flame and eventually extinguishes the fire. We asked the UL to test the flammability of the Prusament PETG V0. The test method was made according to the IEC 60695-11-10 standard and resulted in a class UL94 V0 (for both our colors).

- → A unique UL-certified self-extinguishing filament
- → Perfect for plastic parts in electronic appliances
- → Good high-temperature resistance
- → Good chemical resistance
- → Low shrinking and warping
- → High strength and durability
- → Halogen-free (less harmful fumes when burning)
- → Easy to print

- → Hygroscopic material (needs drying before printing)
- → Prone to stringing and oozing
- → Poor bridging characteristics
- → Worse details than PLA, for example
- → The UL certification applies only for printing with Original Prusa MK3S+, MK4S, and XL and approved profiles in PrusaSlicer

Heatbed: **80 ± 10 °C**

Nozzle: **230 ± 10 °C**



V0 Natural

1 KG



V0 Jet Black

1 KG

Knorr-Bremse Rail System Denmark repairs trains, often designing and manufacturing new parts. For this purpose, the company uses Prusament PETG V0. It's a tough material with good thermal resistance which is also self-extinguishing, so it meets all the criteria of the necessary certification procedures. This makes it ideal for making mounts and covers for various electronic devices.

SCAN THE QR CODE FOR MORE DETAILS

PRUSAMENT

TPU 95A

FLEXIBLE AND WEAR-RESISTANT

Prusament TPU 95A is a durable material with flexible properties and extreme wear resistance. It offers a precise and consistent diameter, which is far from common among flexible filaments. The Prusament TPU 95A polymer structure (ether diol type) slightly differs from most TPU filaments (ester diol type). This difference gives this material several advantages regarding both mechanical and chemical resistance. The Prusament TPU 95A offers very low moisture absorption and high resistance to hydrolysis. Its high elasticity and impact resistance remain even at low temperatures (as low as -50 °C). Also, this material is resistant to microbial degradation, has good temperature resistance (HDT 78.6 °C at 1.80 MPa), and great chemical resistance (mostly to oil and grease).

- → Soft and bendable at thin layers, strong and durable at thick layers
- → High print reliability with little to no stringing
- → Precise diameter
- → Good at printing bridges and overhangs (compared with other TPUs)
- → Great wear resistance
- → Flexible and durable at sub-zero temperatures
- → High resistance to hydrolysis and microbial degradation

- → Some extra tweaking before printing may be required (depending on your printer)
- → Printing with a smooth sheet requires a separation layer
- → Drying may be necessary when stored in high-moisture conditions
- → Large prints tend to warp

Heatbed: **65 ± 10 °C**

Nozzle: **235 ± 10 °C**

Natural

500 G



Lipstick Red

500 G



Ultramarine Blue

500 G



Urban Grey

500 G



Prusa Galaxy Black

GLITTER 500 G



Jet Black

500 G



PRUSAMENT

PVB

EASY SMOOTHING FOR GLASS-LIKE FINISH

Polyvinyl butyral (PVB) is a design material suitable mostly for visual purposes. Thanks to its translucency and easy smoothing with isopropyl alcohol, PVB is great for printing visual models such as unconventional vases, jewelry, lampshades, and other design elements. Its most notable benefit is its easy solubility (in isopropyl alcohol), which allows users to create models with a glass-like finish. Combining translucency and easy smoothing expands the field of use. Movie props, costume parts, and other unusual models are just some of the many options. Additionally, due to its low warping PVB is suitable for printing large models. Print settings of PVB are similar to PLA, and mechanical properties are slightly better (similar to CPE or PETG).



- → Easy to print (similar to PLA)
- → Ideal for design parts, vases, lamp shades etc.
- → IPA chemical smoothing
- → Great surface adhesion
- → Good mechanical properties (similar to CPE/PETG)
- → Low warping (lower than PLA)

- → Poor high-temperature resistance
- → Hygroscopic filament (absorbs moisture)
- → Poor layer-to-layer adhesion (slightly worse than PLA)

Heatbed: **75 °C**

Nozzle: **215 ± 10 °C**



Natural

TRANSPARENT 500 G



Light Yellow

TRANSPARENT 500 G



Prusa Orange

TRANSPARENT 500 G



Dark Blue

TRANSPARENT 500 G



Bright Green

TRANSPARENT 500 G



Smoky Black

TRANSPARENT 500 G

PRUSAMENT

ASA

DESIGNED FOR OUTDOOR USE

ASA is a technical material with properties similar to ABS but better in several ways. Compared to ABS, it's UV stable, it doesn't suffer from shrinking so badly and the fumes produced are much less noticeable. ASA 3D prints are durable, tough and suitable for a wide range of applications. ASA comes with much better high-temperature resistance than other common materials, such as PLA or PETG. It shows no signs of deformation up to temperatures near 93 °C. Thanks to all these properties, ASA is especially suitable for printing objects meant for long-time outside use.

- → Great for outside use – UV stable
- → Good high-temperature resistance
- → Detailed prints without a stringing effect
- → Can be smoothed with acetone vapors
- → Can be easily sanded / post-processed
- → Good mechanical resistance

- → Large models tend to warp (enclosure recommended)
- → Produces a slight odor of burned plastic during printing (less than ABS)
- → Contains styrene (potentially harmful fumes)
- → Hygroscopic (absorbs moisture)

Heatbed: **110 ± 5 °C**

Nozzle: **260 ± 5 °C**



SCAN THE QR CODE FOR MORE DETAILS

For the same reason, Anitra System uses GPS tracking loggers for animals 3D printed out of Prusament ASA because the material is tough, resistant, and lightweight.



Natural

800 G



Signal White

800 G



Prusa Orange

800 G



Lipstick Red

800 G



Sapphire Blue

800 G



Prusa Pro Green

800 G



Olive Green

800 G



Light Grey

800 G



Prusa Galaxy Black

GLITTER 800 G



Jet Black

800 G

When restoring vintage Volvos from the '60s and '70s, Amazon Cars often uses 3D printing to replace parts that can no longer be obtained. For example, they made perfect replicas of these windshield clips using ASA to withstand the pressure and weather conditions.



SCAN THE QR CODE FOR MORE DETAILS

PRUSAMENT

PC BLEND

FOR HEAT-STRESSED MACHINE PARTS

Because of its strength and toughness, PC Blend is perfect for durable, functional 3D prints. Plus, the PC Blend has high-temperature resistance up to 113 °C / 235 °F. It is an excellent choice for printing mechanically or heat-stressed parts. Thanks to excellent mechanical resistance and good resistance to creep (cold flow), the prints can be used not just as prototypes, but directly as functional parts in production machinery. PC Blend is recommended for experienced 3D printer owners looking for a tough, durable material for the production of prototypes and functional parts, thermally and mechanically stressed components.

- Great high-temperature resistance (up to 113 °C)
- High impact and wear resistance (very strong and rigid material)
- Good dimensional stability in comparison with other PC filaments
- Prints don't deform under pressure over time
- Good electrical insulating properties
- Styrene-free (non-toxic compared to ASA)
- Very low moisture absorption

- Large models have a tendency to warp
- Requires high heatbed and nozzle temperatures
- Produces noticeable odor during printing

Heatbed: **110 ± 10 °C**

Nozzle: **275 ± 10 °C**



Natural

900 G



Prusa Orange

900 G



Prusa Pro Green

900 G



Light Grey

900 G



Urban Grey

900 G



Jet Black

900 G 2 KG



Formula racing team AIX Racing's engineers use Prusament PC-Blend to make various functional parts, prototypes, and tools to gain an edge in international racing competitions.

SCAN THE QR CODE FOR MORE DETAILS

PRUSAMENT

PC BLEND CARBON FIBER

INCREDIBLY DURABLE, YET EASY TO PRINT

Prusament PC Blend Carbon Fiber (PCCF) is a PC Blend filled with carbon fibers to improve its strength, toughness, and temperature resistance. Unlike the unmodified PC Blend, PCCF comes with great dimensional stability, good resistance to UV light and common chemicals, better tensile strength, but most importantly with high-temperature resistance and easier printing. It is optimal for printing technical components requiring great strength and high-temperature tolerance. The possibility of printing large models without using an enclosure is a great advantage when compared to pure PC Blend. Printing with PCCF requires a hardened steel nozzle.



- High impact and wear resistance (very strong and rigid material)
- Great high-temperature resistance (up to 114 °C)
- Possibility of annealing (improving resistance up to 130 °C)
- Good UV stability and resistance to common chemicals
- Great dimensional stability – possible to print large models without an enclosure
- No need for drying prior to printing
- Highly attractive matt black surface
- Uses recycled carbon fibers from the manufacturing process

- Requires hardened nozzle
- More brittle than Prusament PC Blend
- Lower thickness precision (0.04 mm) caused by carbon fibers inside

Heatbed: **110 ± 10 °C**

Nozzle: **285 ± 10 °C**

Carbon Fiber

FILLED 800 G 2 KG

Because of its high chemical and mechanical resistance, the AIX Racing Team uses PC-Blend CF to make functional components, including uniquely shaped airflow tubes that direct cool air to the areas of the car or engine where it is needed most.



SCAN THE QR CODE FOR MORE DETAILS



SCAN THE QR CODE FOR MORE DETAILS

Students in Volkswagen Academy Emden use Prusament PC-Blend CF to make parts, tools, and proofs-of-concept to complete various training challenges of their educational process.

PRUSAMENT

PC SPACE GRADE

MADE FOR SPACE APPLICATIONS

Prusament PC Space Grade Black is a material developed for the space industry and particle physics applications. Its main advantages are its ESD-safe properties and very low outgassing. Plus, its affordable price and ease of printing on common desktop printers make it unique in this industry. Due to its excellent ESD properties and compatibility with desktop 3D printers, it's suitable not only for parts exposed to outer space but also for advanced personal projects, such as housings for electronic devices and more. This Prusament was developed in cooperation with the Czech space company TRL Space.

- → ESD-safe material
- → Excellent outgassing properties
- → Great high-temperature resistance (up to 137.6 °C)
- → Great dimensional stability – possible to print large models without an enclosure
- → Can be printed on common desktop 3D printers

- → Requires a hardened nozzle
- → Lower layer-to-layer adhesion compared to pure PC
- → May require drying before printing

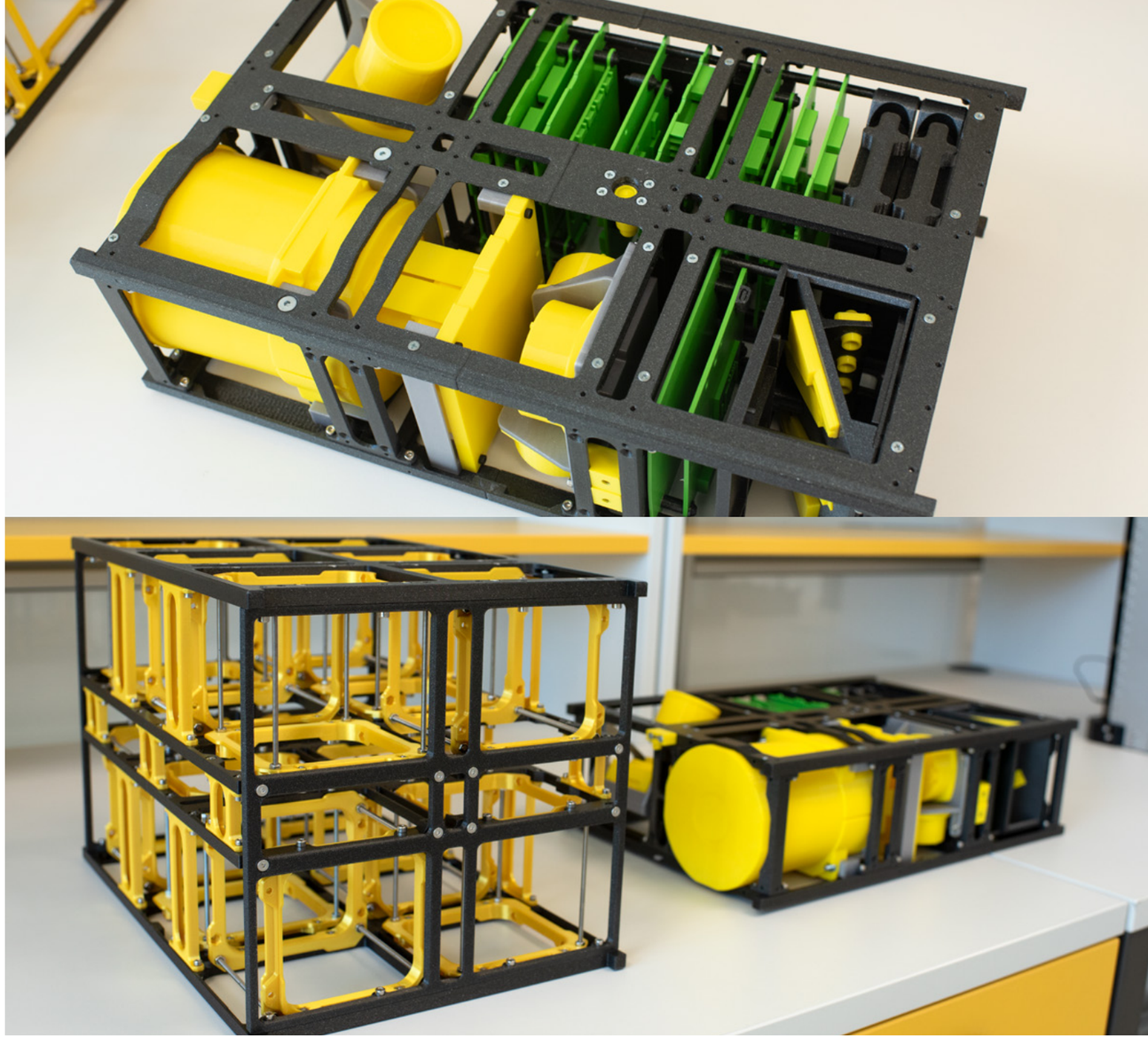
Heatbed: **110 ± 10 °C**

Nozzle: **285 ± 10 °C**



Black

FILLED ESD-SAFE AEROSPACE 850 G



As an example of a less-demanding space application, Prusament PC Space Grade Black was used for various CubeSat structures designed by TRL Space.

SCAN THE QR CODE FOR MORE DETAILS

PRUSAMENT

PA11

LOW-FRICTION MATERIAL WITH GREAT CHEMICAL RESISTANCE

Prusament PA11's main strength lies in low friction and good abrasion resistance. Combined with decent mechanical properties (impact and tensile strength), it's perfectly suitable for printing gears and other moving parts. It also resists bases (e.g., NaOH), alcohols (Methanol, Ethanol), toluene, acetone, motor oil, petrol, diesel, etc. This makes it usable in laboratories, automotive, and other demanding industry fields. Prusament PA11's tensile strength anisotropy coefficient reaches r=0.84 when printed with Prusa Core One+. This is the highest value of all Prusament materials. This means the material is much harder to break and withstands stress in every direction, no matter the layers' orientation.

- → Great high-temperature resistance after annealing (up to 122.5 °C)
- → Great chemical resistance
- → High impact and wear resistance (very strong and rigid material)
- → Very low friction coeficient
- → High UV resistance
- → High tensile strength anisotropy coefficient
- → Noticeably less hygroscopic compared to other polyamides

- → A special print sheet (or separation layer) is required
- → Hygroscopic (absorbs moisture)
- → Emits odors during printing (enclosure with active filtration recommended)
- → Low dimensional stability (strong warping)

Heatbed: **100 ± 10 °C**

Nozzle: **275 ± 10 °C**



Natural

TRANSPARENT 800 G



Grey

800 G



Black

800 G



PRUSAMENT

PA11 CARBON FIBER

HEAT & CHEMICAL RESISTANCE

Prusament PA11 Carbon Fiber is an ideal filament for prototypes in the automotive, aerospace, and hobby industries, given its excellent resistance to heat, chemicals, and mechanical stress. Among the Prusament filaments, PA11-CF has by far the best temperature and chemical resistance. 3D-printed parts withstand up to 190 °C (depending on stress) and have increased resistance to many solvents (NaOH, Methanol, Ethanol, Toluene, Acetone, motor oils, benzene, diesel, etc.). PA11-CF is a material made from castor oil, the carbon fibers used for this material are recycled, the same as for the Prusament PC Blend Carbon Fiber. The best use of the PA11-CF is for making special chemically, mechanically, and heat-stressed parts, such as car engine components.

- → Excellent high-temperature resistance (up to 190 °C)
- → Great chemical resistance
- → High impact and wear resistance (very strong and rigid material)
- → Low friction coefficient
- → Noticeably less hygroscopic compared to other polyamides
- → Highly attractive matt black surface
- → Great dimensional stability – possible to print large models without an enclosure
- → Uses recycled carbon fibers from the manufacturing process

- → A special print sheet (or separation layer) is required
- → Requires hardened nozzle
- → Lower layer-to-layer adhesion compared to pure PA11
- → Slightly hygroscopic (absorbs moisture)
- → Emits odors during printing

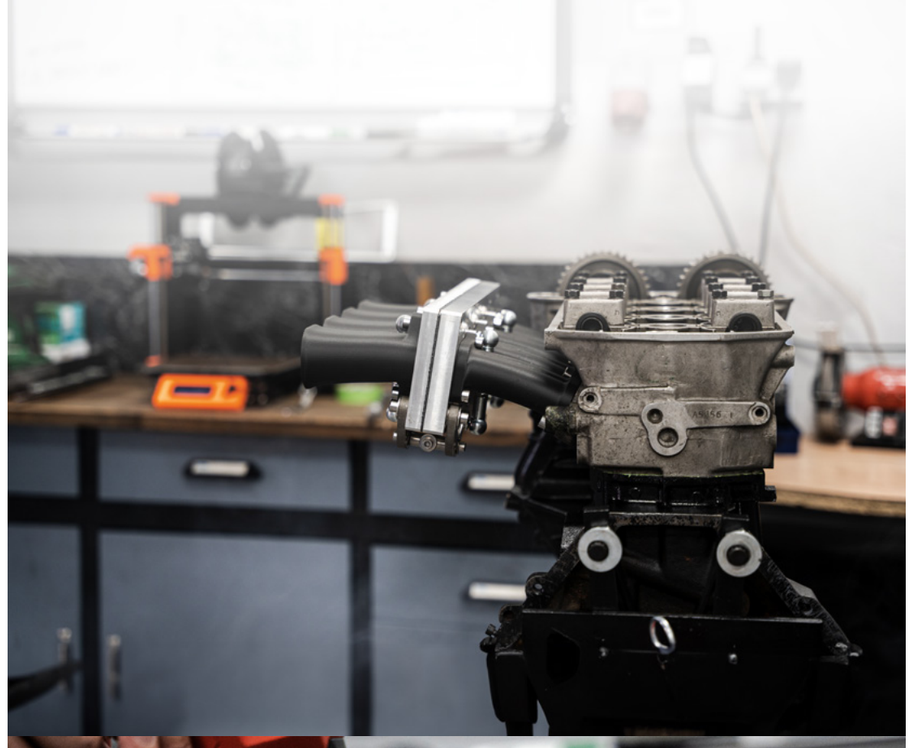
Heatbed: **110 ± 10 °C**

Nozzle: **285 ± 10 °C**



Carbon Fiber

FILLED 800 G





Due to its thermal and mechanical resistance, Prusament PA11 is ideal for prototyping parts of machines that emit heat, such as this intake manifold for a vintage Cosworth engine, which is commercially no longer available. Also, in a unique Mercedes 190E renovation, printed parts made from PA11 allowed proper testing and fine-tuning before the model went into final production.

PP CARBON FIBER

HIGH CHEMICAL RESISTANCE & GOOD PRINTABILITY

Prusament PP Carbon Fiber is a lightweight material with exceptional chemical resistance. It resists various solvents, non-oxidized bases and acids, and oils. The high chemical resistance makes it perfectly suitable for printing laboratory equipment, various parts in the automotive industry, and more. Its lightweight properties also make it suitable for the aerospace industry, as well as for use in hobby RC aircraft. Pure PP in general is a very hard material to print: it doesn't stick to most surfaces and it warps a lot. With carbon fibers inside, the Prusament PP Carbon Fiber gets very good dimensional stability. This allows very easy printing of large parts. Plus, we offer a special PP Print sheet, which is perfect for printing PP-based materials (incl. Prusament PP Carbon Fiber).

- → High-temperature resistance (up to 120 °C)
- → Very good chemical resistance
- → Lightweight material
- → Visually appealing matt black surface
- → Great dimensional stability – possible to print large models without an enclosure
- → Uses recycled carbon fibers from the manufacturing process
- → Drying not necessary

- → A special print sheet (or separation layer) is required
- → Requires hardened nozzle
- → Lower layer-to-layer adhesion compared to pure PP

Heatbed: **85 ± 10 °C**

Nozzle: **270 ± 10 °C**

Carbon Fiber

FILLED 650 G



PP GLASS FIBER

GREAT CHEMICAL AND HIGH-TEMPERATURE RESISTANCE

Prusament PP Glass Fiber is a lightweight material with exceptional heat and chemical resistance. The addition of small glass particles gives the material great dimensional stability (with little to no warping). On the other hand, the glass fibers inside are highly abrasive, and a hardened nozzle is required. The material is easy to print and the surface has an attractive, rough matte finish. Due to its lightweight properties and extreme heat and chemical resistance, the Prusament PP Glass Fiber is suitable for demanding applications in the automotive and aerospace industries. It can also be used in laboratories for custom equipment, such as vial racks. And finally, hobbyists may find this filament useful for printing drone parts and other components that require outstanding mechanical properties.

- → Great high-temperature resistance (up to 138 °C)
- → Very good chemical resistance
- → Lightweight material
- → Great dimensional stability – possible to print large models without an enclosure
- → Drying is not necessary

- → A special print sheet (or separation layer) is required
- → Requires a hardened nozzle
- → Lower layer-to-layer adhesion compared to pure PP

Heatbed: **95 ± 10 °C**

Nozzle: **245 ± 10 °C**



Glass Fiber

FILLED 850 G



PRUSAMENT

PEI 1010

ULTRA-PERFORMANCE

PEI 1010 (polyetherimide, branded as Ultem) is one of the most resistant 3D printing polymers, suitable for specialized and demanding industrial applications. The material has a great high-temperature and chemical resistance, and excellent mechanical properties. It is inherently flame-retardant and resistant to gamma radiation. As one of the most resistant materials, it can be used for industrial applications directly as functional parts – it can even be used as a replacement for aluminum alloys. The unique combination of material properties makes it usable for various medicinal or aerospace applications.
Due to very high printing temperatures, this material can be printed only with the Prusa Pro HT90 or a similar printer with a heated chamber (minimum 90 °C). Also, this material is extremely prone to moisture absorption and it is necessary to dry it before every print and keep it in a dry box during the printing.

- → Exceptional mechanical properties
- → High strength-to-weight ratio
- → Great high-temperature resistance
- → Very good chemical resistance
- → Gamma radiation resistance
- → Inherently flame-retardant material

- → Very high working temperatures (compatible with HT90 only)
- → Extremely prone to absorbing moisture
- → Strong adhesion to the PEI surface (separation layer needed)
- → Large prints prone to warping

Heatbed: **150 ± 10 °C**

Nozzle: **395 ± 10 °C**



Natural

TRANSPARENT SELF-EXTINGUISHING 500 G



PEI 1010 SPACE GRADE

HIGH PERFORMANCE POLYMER FOR SPACE APPLICATIONS

Prusament PEI 1010 Space Grade Black is a filament certified for space applications. This material is a perfect counterpart to the already released Prusament PC Space Grade Black. While the PC Space Grade is intended for lower-temperature and electrically dissipative (ESD) applications in the aerospace sector, PEI 1010 Space Grade Black excels in electrical insulation properties and extreme high-temperature resistance (> 200 °C). A crucial feature for space applications is the material's exceptionally low outgassing. Prusament PEI 1010 Space Grade also has great chemical resistance, resists gamma radiation, and is inherently flame-retardant. Due to very high printing temperatures, this material can be printed only with the Prusa Pro HT90 or a similar printer with a heated chamber (minimum 90 °C). Also, this material is extremely prone to moisture absorption and it is necessary to dry it before every print and keep it in a dry box during printing.

- → Low outgassing
- → Great thermal resistance (> 200 °C)
- → Electrical insulation properties
- → Inherently flame-retardant material
- → Gamma radiation resistance
- → Exceptional mechanical properties (high strength-to-weight ratio)
- → Very good chemical resistance

- → Very high working temperatures (compatible with HT90 only)
- → Extremely prone to absorbing moisture
- → Strong adhesion to the PEI surface (separation layer needed)
- → Large prints prone to warping

Heatbed: **150 ± 10 °C**

Nozzle: **410 ± 10 °C**

Black

AEROSPACE SELF-EXTINGUISHING 500 G



PRUSAMENT

PELLETS

RAW MATERIAL FOR LARGE-FORMAT 3D PRINTING OR POLYMER RESEARCH & DEVELOPMENT

Buying small batches of polymer pellets for a laboratory or workshop may be difficult: Raw materials are usually sold in tons or at least hundreds of kilos. But when you need just a few (dozens) of kilos for lab use, or large-format FGF printing, only a handful of manufacturers can help you. We offer pre-dried Prusament pellets in 3,5–14 kg packages for small-scale use. We ship the pellets pre-dried. In most use cases, this makes them ready to use immediately after unpacking.

PLA | PETG | ASA | PC BLEND

3.5 KG | 4 KG | 12 KG | 14 KG

- → Drying is usually not necessary
- → Same high quality as Prusament
- → Small batches suitable for lab use or large-format FGF printing

- → Uncolored base polymer only
- → Specialized equipment required (FGF printer,...)





SMOOTH PEI SHEET

FOR DELICATE PLA PRINTS

Smooth PEI Sheet is a basic print surface that provides excellent adhesion with most filaments. This type of print surface is the number one choice when printing delicate geometries with PLA. However, other materials, like PETG and TPU, can adhere too much and may damage the sheet. The bottom of the printed object gets a smooth, glossy finish when printing on this sheet.

- Perfect for PLA, HIPS, PVA, BVOH
- Double-sided
- Can be cleaned with acetone occasionally

- Most materials stick too well to the print surface and may require a separation layer
- Scratches may be visible both on the surface and the first layer



SATIN SHEET

THE MOST UNIVERSAL PRINT SHEET

This is the most universal print sheet we manufacture. The Satin powder-coated sheet offers good adhesion for most materials without applying a separation layer. You can print any Prusament on this sheet, except PP, PA, and PEI. The sheet's surface finish leaves a satin imprint on the model's first layer. The satin surface is more forgiving than smooth PEI when it comes to visible scratches. It is not scratch-resistant, though. Some delicate geometries printed with PLA may not stick too well on the surface and may require a brim.

- The most universal print surface. Works with most filaments
- Lightly textured surface finish
- Double-sided

- Not scratch-resistant! Do not use metal spatulas, etc., to remove the prints
- Small PLA prints may require a Brim
- Prints from ASA and PC Blend have lower adhesion on satin compared to on the smooth sheet



TEXTURED SHEET

FOR HIGH-VOLUME PRINTING OF PETG AND TPU

The powder-coated sheet, also referred to as the textured sheet, has its surface covered with a special polymer (Ultem PEI) to ensure perfect adhesion. These have been used in our print farm for many years and are perfect when printing a lot of high-adhesion filaments like PETG, and are also ideal for printing flexible filaments (TPU). It has a rougher texture than the Satin sheet and is more durable with some filaments than the Smooth sheet.

- Textured finish
- Double-sided! Both sides can be used interchangeably
- Ideal for extensive printing of PETG, CPE, TPEE/TPU

- Small PLA prints may require a Brim
- Not scratch-resistant! Do not use metal spatulas, etc., to remove the prints
- Prints from ASA, ABS, Nylon, and PC Blend require the application of a glue stick (separation layer)



PP SHEET

MADE FOR EASY PRINTING WITH POLYPROPYLENE

This print sheet is specially designed to print polypropylene-based filaments, especially the Prusament PP Carbon Fiber Black. The PP-type materials generally have lower adhesion on textured or satin print sheets. This sheet has a special surface finish that increases adhesion and is perfect for Prusament PP. The PP sheet has a lightly textured surface finish similar to the Satin Powder-coated Steel Sheet. This special sheet is almost as universal as the satin sheet but offers slightly worse adhesion and requires at least one print with PP or PETG first.

- Perfect for most PP materials
- No need for any separation layer
- Can be cleaned with IPA
- Supports printing large PP parts

- Suitable mostly for PP-based materials, PLA, PETG, and TPU. Large models from other materials may detach mid-print
- Can be damaged with acetone



PA NYLON SHEET

MADE FOR EASY PRINTING WITH POLYAMIDES

The special PA sheet is made for printing polyamides (Nylon) since their adhesion to standard PEI sheets is generally very poor. This sheet was developed hand-in-hand with Prusament PA11 Carbon Fiber Black, which has low adhesion to textured or satin print sheets. The PA Nylon Print Sheet comes with a matte texture, similar to the regular satin print sheet. The sheet is compatible with most polyamides and PETG. Other materials may have insufficient adhesion and should be printed on our standard PEI sheets.

- → Great for polyamide-based materials
- → No need for a glue stick
- → Can be cleaned just with water

- → Suitable only for polyamide-based materials and PETG. Other materials tend to detach mid-print
- → Can be damaged with IPA and acetone



HIGHTEMP SHEET

PERFECT ADHESION OF ADVANCED MATERIALS AND LONGER LIFESPAN AT ELEVATED TEMPERATURES

Unlike the regular Textured sheet, the HighTemp sheet is designed for printing with high-temperature materials. It offers good adhesion to materials like PEEK, PEEK-CF, PEI, PEKK, and PPSU, plus it resists multiple cycles at temperatures over 100 °C. However, this print sheet is not suitable for printing standard low-temperature materials, such as PLA and PETG.

- → Suitable for printing high-temperature materials
- → Longer lifespan at elevated temperatures
- → Can be washed only with dish soap and water

- → Some materials may require a separation layer (Magigoo HT)
- → Unsuitable for low-temperature materials, such as PLA and PETG
- → Gets damaged when cleaned with alcohol-based solvents



COOL SHEET

FOR PRINTING AT LOW TEMPERATURES

The Cool Sheet's print surface is specially developed for printing PLA at reduced heatbed temperatures. Lowering the bed temperature not only saves electricity but also shortens print times. Additionally, keeping the temperature lower inside an enclosure improves overall PLA print quality. This sheet offers perfect layer adhesion without any corner warping, eliminating the need for additional adhesives like glue sticks or bed sprays. Once the bed cools down completely, simply flex the print sheet to release the object.

- Enables PLA printing at low bed temperatures starting from 30 °C
- Simple cleaning using only dish soap and water
- Saves electricity and reduces heat-up times

- Printing TPU or exceeding 80 °C can permanently damage the bed surface
- Cleaning with isopropyl alcohol (IPA) reduces print adhesion (reversible)
- Lower mechanical durability compared to other Prusa Polymers print sheets



DECOR SHEET

A SATIN SHEET WITH A DECORATIVE SURFACE PATTERN

We upgraded our satin sheet with a stencil-made decorative pattern, which combines rough and smooth (glossy) surfaces. These surfaces, imprinted on the first layer, give the model fresh, original looks. The decor doesn't wear out with printing and remains the same after long use.

- Offers the same mechanical, chemical, and thermal resistance as regular satin sheet
- Compatible with most materials without extra surface preparations (PLA, PETG, TPU, PC ...)
- Doesn't affect mesh bed leveling in any way
- Each side has a different pattern

- Gets damaged by acetone
- Old model imprint may be visible. Clean the surface thoroughly before every print to prevent this.
- Pattern visibility depends on the 3D-printed material



PRUSAMENT RESIN

BASIC

AFFORDABLE MATERIAL FOR RAPID PROTOTYPING

Prusament Resin Basic is an affordable SLA material for everyday use. It offers easy printability with fine detail, while maintaining an affordable price and the lowest possible toxicity. The material's low price and ease of use make it perfect for rapid prototyping both at home and at work. It is suitable for printing various miniatures, toys, jewelry, and other visual components requiring fast and reliable printing at a low price. This resin is free of Bisphenol A, Acryloylmorpholine, TPO, and other hazardous chemicals, yet is easy to use and offers reliable printing.

- → Affordable resin for rapid prototyping
- → Decent detail
- → Low viscosity
- → Low odor and low toxicity
- → Cured prints are not cytotoxic or skin-irritating
- → Does not contain Bisphenol A

- → Higher shrinkage (compared to Prusament Model+ Resin)
- → Slightly lower adhesion to printing platform (compared to Prusament Model+ Resin)



Basic Orange

1 KG 5 KG



Basic Grey

1 KG 5 KG



Basic Black

1 KG 5 KG

PRUSAMENT RESIN

MODEL+

THE RESIN DESIGNED FOR MODELERS

Prusament Resin Model+ is a high-quality resin developed with a strong emphasis on both user safety and print quality. It offers exceptionally short exposure times, sharp details, low shrinkage, and perfect platform adhesion coupled with high printing performance and reliability.
Our unique formula also minimizes unpleasant odors and potential health risks. These qualities make the Model+ resin a perfect choice for a wide range of use cases, from hobby printing, educational projects, art, design, high-end industrial prototyping, or dental models. This resin is free of Bisphenol A and other hazardous chemicals, yet is easy to use and offers amazing accuracy and a high level of detail. Prusament Resin Model+ is suitable for both beginners and experienced users.

- → Fast and reliable high-resolution printing
- → Increased adhesion to the print platform
- → Reduced polymer shrinkage and print fragility
- → Good deformation resistance
- → The high opacity of prints enhancing details
- → Low level of odor
- → Cured prints are not cytotoxic or skin-irritating
- → Does not contain Bisphenol A

- → Low temperature resistance of prints (50 °C)
- → Too much exposure of prints to UV radiation leads to yellowing which partially disappears over time



Model+ Transparent Clear
TRANSPARENT 1 KG 5 KG



Model+ Alabaster White
1 KG 5 KG



Model+ Bright Yellow
1 KG 5 KG



Model+ Transparent Amber
TRANSPARENT 1 KG 5 KG



Model+ Prusa Orange
1 KG 5 KG



Model+ Classic Red
1 KG 5 KG



Model+ Brick Red
1 KG 5 KG



Model+ Transparent Red
TRANSPARENT 1 KG 5 KG



Model+ Bright Magenta
1 KG 5 KG



Model+ Ultra Violet
1 KG 5 KG



Model+ Bright Cyan
1 KG 5 KG



Model+ Prusa Pro Green
1 KG 5 KG



Model+ Transparent Green
TRANSPARENT 1 KG 5 KG



Model+ Grass Green
1 KG 5 KG



Model+ Neutral Beige
1 KG 5 KG



Model+ Sand Stone
1 KG 5 KG



Model+ Terra Brown
1 KG 5 KG



Model+ Solid Grey
1 KG 5 KG



Model+ Anthracite Grey
1 KG 5 KG



Model+ Rich Black
1 KG 5 KG



The Shark, the fastest ultralight airplane in the world, has a control stick made from Prusament Resin Model+ (covered by black and blue paint in the picture).

SCAN THE QR CODE FOR MORE DETAILS



Asana Dental created a custom-made suction system for dentists. When printed from Prusament Resin Model+ Alabaster White, these heads are durable and heat-resistant, and they can be sterilized after each use.

SCAN THE QR CODE FOR MORE DETAILS

PRUSAMENT RESIN

MODEL+ COLOR KIT

FOR MIXING ANY COLOR OF THE SPECTRUM

The Prusament Resin Model+ Color Kit includes 5 basic colors of resin, that can be easily combined to create almost any color of the spectrum. It consists of cyan (C), magenta (M), yellow (Y), black (B), and white (W). There is also a whole set of accessories: syringes, pipettes, cups, small bottles, and gloves for easy and safe mixing. Last but not least, we added a sample book with 44 color formulas that serve as a great starting point for mixing your own colors.

- Mixing equipment in one pack
- Compatible with other Prusament Model+ resin colors
- Mechanical and printing properties of Prusament Model+ resin
- Low odor
- Cured prints are not cytotoxic or skin-irritating
- Acryloylmorpholine free
- Does not contain Bisphenol A
- TPO free

- Yellowing of parts after prolonged post-curing (disappears with elevated temperature and over time)
- The uncured resin might pose a health risk
- Non-recyclable material

SCAN THE QR CODE FOR MORE DETAILS



HIGH TEMPERATURE

HARD, BRITTLE AND HEAT-RESISTANT

Prusament Resin High Temperature is a technical resin developed for applications requiring strong resistance to heat. This makes it an ideal choice for printing prototypes, end-use components exposed to thermal stress, or specialized molds. This resin is free of Bisphenol A, Acryloylmorpholine, TPO, and other hazardous chemicals, yet is easy to use and offers excellent results when printed with standard 405 nm MSLA printers.

- High thermal resistance (more than 270 °C)
- High hardness of printed and cured parts
- Low odor
- REACH and CLP compliant

- Low impact strength (brittle material)
- Requires thorough mixing of mineral fillers before printing





HT Resin Amber

TRANSPARENT 1 KG 5 KG



HT Resin Black

1 KG 5 KG

IMPACT65

EASY TO PRINT, HARD TO BREAK

Prusament Resin Impact65 is a hobby resin with increased impact resistance while maintaining its easy printability and lowest possible toxicity. This material comes with nice Izod impact strength 65 kJ/m² (thus the name), tensile strength 25 MPa, and elongation reaching 30%. Such values might be comparable to various common thermoplastics. It slightly resembles a very hard rubber, as the material's thin parts bend instead of breaking. Furthermore, Impact65 can be used for printing certain outdoor applications, which is also not very common among hobby SLA resins. If you don't expose it to high temperatures, it should resist prolonged periods of UV exposure, moisture and low temperatures.

- → Tough, yet partially flexible
- → High Impact resistance
- → Low viscosity allows fast and reliable printing
- → Easy post-processing with CW1S
- → Suitable for outdoor applications (if not exposed to high temperatures)
- → Odorless, without highly toxic substances (Bisphenol A, TPO, etc.)

- → Poor high-temperature resistance
- → Low notched-impact resistance (may tear under certain stress conditions)
- → Very soft green body (similar to Prusament Resin Flex80)





Black

1 KG 5 KG



PRUSAMENT RESIN

FLEX

RUBBER-LIKE MATERIAL

Prusament Resin Flex80 is an easy-to-use resin that provides reliable printing of detailed models with rubber-like properties. Unlike many other resins on the market, it allows printing large objects with little to no adjustments. Soft, yet durable properties make it suitable for printing intricate flexible models, such as RC car parts, medical models, durable figures, and many more. The flexibility of printed objects can be compared to a car tire, ebonite hard rubber, or a shoe sole. Compared to most other flexible resins on the market, our Prusament Resin Flex80 has a noticeably lower odor and viscosity allowing the finished models to be easily washed in isopropyl alcohol without special washing and post-curing procedures.

- → Soft, rubber-like, and durable (hardness similar to car tire or rubber shoe sole)
- → High print reliability
- → Short exposure time
- → Great print detail
- → Low viscosity - no preheating required
- → Low-odor
- → Easy to wash
- → Does not contain Bisphenol A

- → Limited deformation



Anatomic Red
1 KG



Gingiva Mask
1 KG



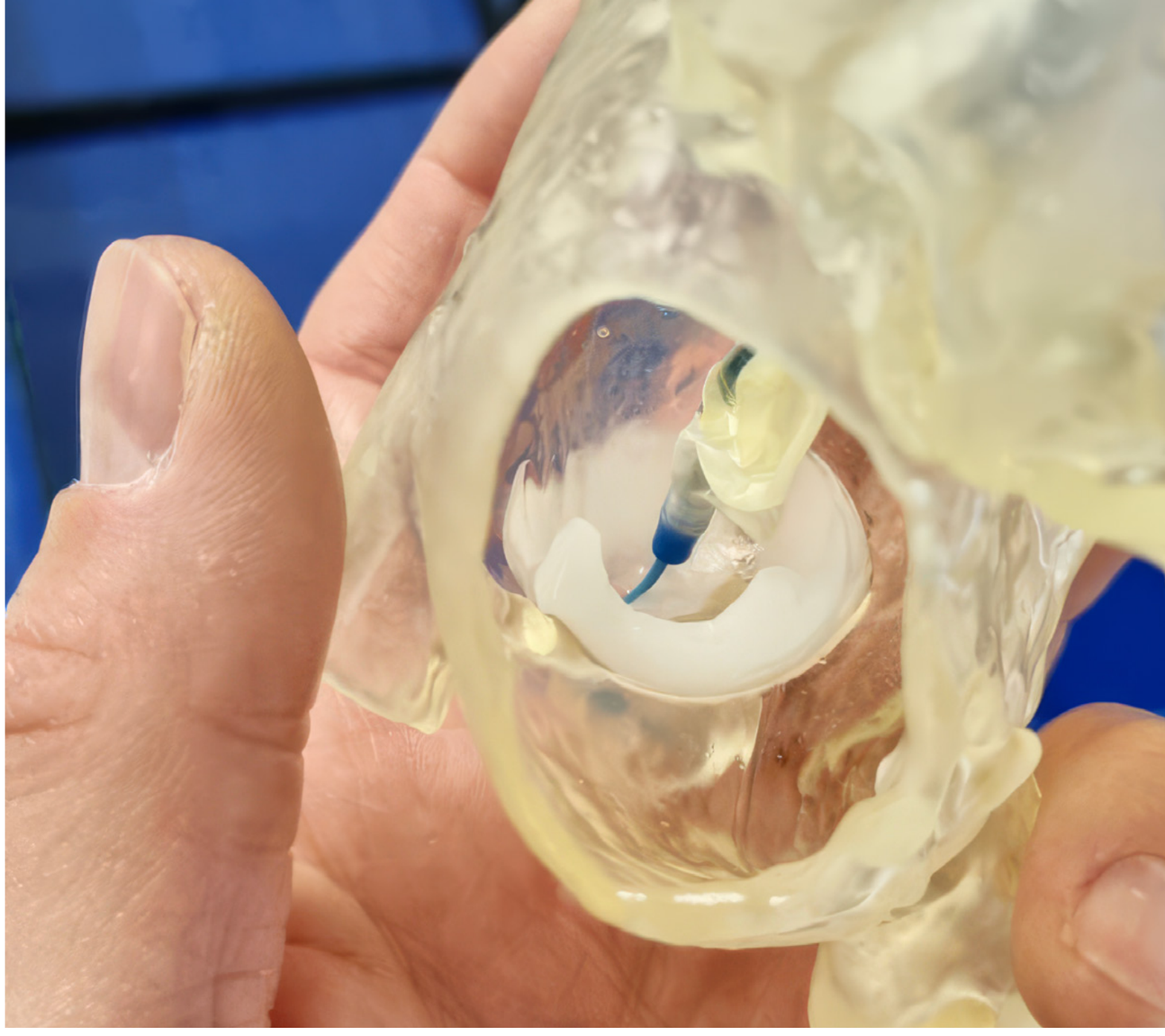
Flex80 Transparent Clear
TRANSPARENT 1 KG



Flex80 White
1 KG



Flex80 Black
1 KG 5 KG



Faculty hospital in Brno, Czechia, uses Prusament resin FLEX to make 1:1 cardio models for pre-surgery preparation. The material is close to real-life organs, allowing the surgeons to choose the right-sized tools and avoid potential problems.

SCAN THE QR CODE FOR MORE DETAILS

PRUSAMENT RESIN

RESIN CLEANER DPM

RESIN WASHING SOLVENT WITH HIGH SAFETY PROFILE

The Prusament Resin Cleaner DPM is an effective organic solvent made for washing uncured SLA models. It is safer than commonly used isopropyl alcohol in every way: It's much less flammable, much less volatile, and significantly less toxic. Plus, there's no risk of unstable peroxides forming as isopropyl alcohol does. The Prusament Resin Cleaner DPM washing cycle takes 5–15 minutes, depending on the model complexity. It lasts multiple cycles before getting saturated with leftover liquid resin. Our testing proved that 2 l of the cleaner works perfectly until saturated with 100 ml of liquid resin. Then it gradually loses its efficiency.

- → Low flammability with high ignition temperature
- → Low volatility (reduced levels of VOCs in the air)
- → Low toxicity
- → Low odor
- → Does not form unstable peroxides

- → Higher price than IPA
- → Washing in another vat with water may be necessary

1L 5L



PRUSAMENT GUIDE

[1] Heat defection temperature (ISO 75): The point when the tested object bends under a 0.45 MPa load.

[2] Impact resistance Charpy: Energy necessary to break object with Charpy pendulum (ISO 179-1).

[3] Tensile strength: Force necessary to tear (or deform) test objects (ISO 527-1, ASTM D638 for flexible filaments).

	Material features				Printing setup			Printing setup		Sheets					
Material	Heat deflection [1]	Impact resistance [2]	Tensile strength [3]	Soluble in common solvents	Enclosure	Hardened nozzle		Nozzle Temperature	Bed temperature	Textured	Smooth PEI	Satin	PA Nylon (clean with water)	PP	HT
Prusament PLA	55 °C	12 kJ/m²	57 MPa	No	No	No		215 °C	60 °C	Yes	Yes	Yes	No	Yes	No
Prusament PLA High Speed	57 °C	17 kJ/m²	68 MPa	No	No	No		210 °C	50 °C	Yes	Yes	Yes	No	Yes	No
Prusament PLA Lightweight	78.8 °C	14 kJ/m²	37.1 MPa	No	No	No		215–235 °C	50 °C	Yes	Yes	Yes	No	Yes	No
Prusament rPLA Natural Pigments	61 °C	13 kJ/m²	52 MPa	No	No	No		205 °C	60 °C	Yes	Yes	Yes	No	Yes	No
Prusament Woodfill	62 °C	21 kJ/m²	23 MPa	No	No	No		195 °C	100 °C	No	with glue stick	Yes	Yes	No	No
Prusament PETG	68 °C	no break	46 MPa	No	No	No		250 °C First layer: 240 °C	90 °C First layer: 85 °C	Yes	with glue stick	Yes	Yes	Yes	No
Prusament PETG ESD Black	79 °C	27 kJ/m²	58 MPa	No	No	Yes		265 °C	90 °C	Yes	with glue stick	Yes	Yes	Yes	No
Prusament PETG Carbon Fiber	96 °C	43 kJ/m²	52 MPa	No	No	Yes		265 °C First layer: 260 °C	90 °C First layer: 85 °C	Yes	with glue stick	Yes	Yes	Yes	No
Prusament PETG Magnetite 40%	93 °C	60 kJ/m²	47 MPa	No	No	Yes		270 °C First layer: 265 °C	100 °C	Yes	with glue stick	Yes	Yes	Yes	No
Prusament PETG Tungsten 75%	94.2 °C	22 kJ/m²	39 MPa	No	No	Yes		260 °C	85 °C	Yes	with glue stick	Yes	No	Yes	No
Prusament PETG V0	74 °C	33 kJ/m²	42 MPa	No	No	No		230 °C	90 °C First layer: 85 °C	Yes	with glue stick	Yes	Yes	Yes	No
Prusament TPU 95A	78.6 °C	No Break	42.1 MPa	No	No	No		235 °C	65 °C	Yes	with glue stick	Yes	Yes	Yes	No
Prusament PVB	55 °C	55 kJ/m²	50 MPa	IPA	No	No		215 °C	75 °C	No	Yes	Yes	No	Yes	No
Prusament ASA	86 °C	25 kJ/m²	42 MPa	Acetone	Recommended	No		260 °C	110 °C First layer: 105 °C	with glue stick	with glue stick	Yes	No	Yes	No
Prusament PC Blend	113 °C	no break	63 MPa	No	Recommended	No		275 °C	115 °C First layer: 110 °C	with glue stick	with glue stick	Yes	No	Yes	No
Prusament PC Blend Carbon Fiber	114 °C	35 kJ/m²	65 MPa	No	No	Yes		285 °C	115 °C First layer: 110 °C	Yes	with glue stick	Yes	No	Yes	No
Prusament PC Space Grade	137.6 °C	27 kJ/m²	95 MPa	No	No	Yes		290 °C	120 °C	Yes	with glue stick	Yes	No	Yes	No
Prusament PA11	58.7 °C	N/A	38.3 MPa	No	Yes	No		275 °C	100 °C	with glue stick	Not recommended	Yes	Yes	No	No
Prusament PA11 Carbon Fiber	172 °C	30 kJ/m²	42 MPa	No	Recommended	Yes		285 °C First layer: 275 °C	115 °C First layer: 90 °C	with glue stick	Not recommended	with glue stick	Yes	No	No
Prusament PP Carbon Fiber	158 °C	19 kJ/m²	30 MPa	No	No	Yes		270 °C	85 °C	No	With PP tape	No	No	Yes	No
Prusament PP Glass Fiber	138.3 °C	26.9 kJ/m²	48.8 MPa	No	No	Yes		245 °C	95 °C	No	With PP tape	No	No	Yes	No
Prusament PEI 1010	207 °C	39 kJ/m²	95 MPa	No	Yes 90–100 °C necessary	No		430 °C	150 °C	No	No	Yes with MagiGoo HT	No	No	Yes with MagiGoo HT
Prusament PEI 1010 Space Grade Black	207 °C	20 kJ/m²	95 MPa	No	Yes min. 90 °C necessary	No		410 °C	150 °C	No	No	Yes with MagiGoo HT	No	No	Yes with MagiGoo HT

PRUSA RESEARCH

Prusa Research was founded as a one-man startup in 2012 by Josef Prusa, a Czech hobbyist, maker and inventor. Today, Prusa Research has grown to a 1,000+ team and we ship more than 10,000 Prusa printers per month to over 165 countries directly from Prague, Czech Republic, and Delaware, USA.

PRUSA RESEARCH by JOSEF PRUSA

PRUSA POLYMERS by JOSEF PRUSA

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Prusament Portfolio
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Sample Models Credits:
Lion Low Poly by TheDiamondDirt
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Hogwarts by Loafers Lodge
Raccoon In Trash Can by Marcossierra
Bauhaus tray by AndrzejG
Groot Sitting and Smiling by 3DLime
Flour and sugar shovel spoon by SIE-Maker
RC model of Shark airplane scale 1:8 v5.0 by SHARK AERO
NV-AA1-12 Airflow Amplifier by Noctua_at
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