

ees 3D

PRIMASELECT™ CARBON

Why should I use PrimaSELECT™ CARBON?

- Carbon reinforced PETG
- Easy to use, no warping and very dimensionally stable.
- Very good layer adhesion
- High impact and heat resistance
- No hazardous fumes



PRIMASELECT™ CARBON

PrimaSELECT™ Carbon is the latest generation of high performance material for your 3D Printer. Our PrimaSELECT™ Carbon is based on PETG and is reinforced with 20% carbon fibers. This makes for an extremely tough filament that is perfect for printed parts that can be used in the automotive industry, drones and RC parts.

* Please see our website for latest options and colors available.

COLORS AVAILABLE



DARK
GREY

ARMY
GREEN

GREY



PRIMASELECT™ CARBON

INFORMATION:

PrimaSELECT™ Carbon is a very useful material that has very unique properties. Mixed with small, chopped carbon fiber strands, PrimaSELECT™ Carbon filament offers incredible rigidity, structure, and great interlayer adhesion. Due to the fact that there's a very low risk of warping, PrimaSELECT™ Carbon is very easy to print with and has a matt surface when done. The finished prints are very stiff and rigid and are very useful if you need an object with high stiffness to weight ratio. PrimaSELECT™ Carbon doesn't require a heated bed, but if you have one, set it to 35-60 °C to get a really good first layer adhesion.

Due to the abrasive nature of PrimaSELECT™ Carbon we recommend that you use a hardened steel nozzle for this filament. Using a regular brass nozzle isn't a problem but it will wear out the nozzle in a short time.

PrimaSELECT™ Carbon sticks on BuildTak, Glass coated with adhesive spray or glue stick, painters tape coated with hairspray and has been used successfully with glue stick, 3DLac, DimaFix and Magigoo.

PrimaSELECT™ Carbon is reeled on a transparent spool with 500 g of high quality filament. It's packed in a sturdy box and packed with silica gel to avoid moisture.

PrimaSELECT™ Carbon sticks on BuildTak or glass plate coated with adhesive spray or glue stick.

PrimaSELECT™ Carbon are available in diameter sizes of 1.75 mm and 2.85 mm.



DIMENSIONS

Size:	Ø tolerance	Roundness
1,75 mm	±0,05 mm	≥ 95 %
2,85 mm	±0,10 mm	≥ 95 %

PHYSICAL PROPERTIES

Description:	Testmethod	Typical value
Specific gravity	ASTM D792	1,19 g/cc
MFI (300 °C -1,2 kg)	ISO 1133	N.D.
E-modulus 1 mm/min	ISO 527	3800 MPa
Yield stress 50 mm/min	ISO 527	52,5 MPa
Yield strain 50 mm/min	ISO 527	4,2 %
Strain at break 50 min/min	ISO 527	8,0 %
Impact Strength Izod Notched 23°C	ISO 180-1A	3,8 kJ/m²

THERMAL PROPERTIES

Description:	Testmethod	Typical value
Printing temp	-	230-265 °C
Heat Distortion T.	ASTM D648	80°C

Our state of the art factory is equipped with the latest in laser measuring technology to ensure that you will receive a spool of filament with a very tight diameter and roundness tolerance.

This in turn makes for a filament that is compatible with most common printers on the market today.