

SELECT™

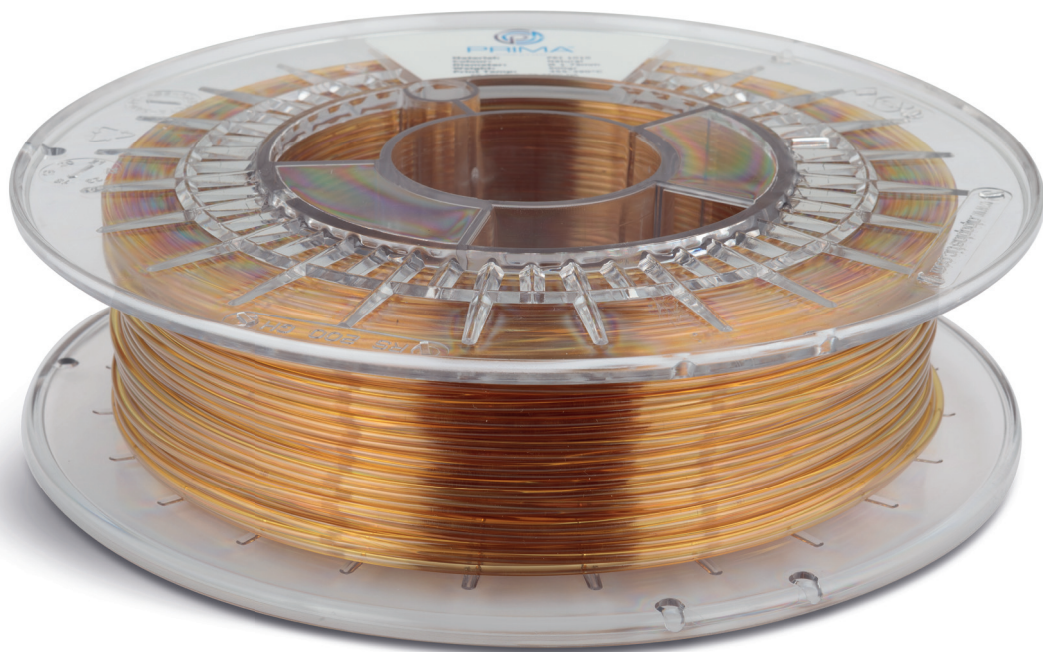
PEI ULTEM 1010

Why should you use Prima SELECT™ PEI ULTEM 1010?

- New formula makes it easy to print*
- One of the strongest filament on the market
- Excellent heat resistance
- Very high chemical resistance
- Can be used for a wide range of applications



*Compared with regular PEI



SELECT™ PEI ULTEM 1010

Polyether Imide (PEI) Ultem 1010 is an amorphous, amber to transparent thermoplastics with a glass transition temperature (T_g) of 217 °C and performs in continuous use up to 170 °C. This inherently flame retardant plastic has UL94 V0 and 5VA ratings. 3D4MAKERS has selected Ultem 1010 for their filament.

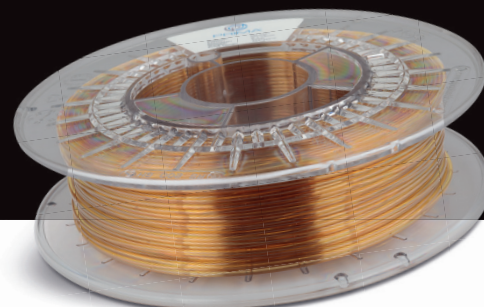


CONTACT INFORMATION:

Phone: +46 40 684 97 90 E-mail: info@primacreator.com
www.primacreator.com

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PEI ULTEM 1010



The PrimaCreator PEI Filament has unique properties because it does not come into contact with water during the production process and is directly packaged in a vacuum packaging. These properties make the PrimaCreator PEI Filament particularly suitable for usage in FDM and FFF 3D printers. The material has an excellent adhesion between layers which results in great improvement of the impact resistance, strength, durability and the printing process.

To make a successful PEI print there are a few things to keep in mind:

- The printer must have the performance to meet the PEI filament and it should be printed with a nozzle temperature of 350-380°C.
- The heat bed should be set to 120-160°C and a heated chamber is important to have. It's also very important to make sure that the printer is placed in a room where there's hardly any draft and temperature fluctuations.
- PEI is best printed on a PEI sheet at a printing speed of 15-30 mm/s.

For further information, check the MSDS.

Measurements and Tolerance

Size	Diameter tolerance	Roundness
1,75 mm filament	+/- 0,05 mm	97%
2,85 mm filament	+/- 0,10 mm	97%
Moisture content	< 0,05%	

Physical properties

Description	Value	Test method
Density	1,27 g/cm ³	ISO 1183

Mechanical properties

Description	Value	Test method
Tensile Stress	105 Mpa	ISO 527
Flexural Modulus	3200 Mpa	ISO 527
Impact strength Notched Izod	5,0 Kj/m ²	ISO 180

Printer settings

Description	Value
Printer nozzle temperature	355 - 390°C
Heated bed temperature	120 - 160°C

Reseller: