

PEI ULTEM™ 1010

PEI ULTEM™ 1010 is an **ultra-performance** material with exceptional dimensional stability, inherent flame retardancy and good chemical resistance. This material is an amorphous, amber to transparent thermoplastics with a glass transition temperature (Tg) of **217°C** and performs in continuous use up to **170°C**. PEI ULTEM™ 1010 offers superior tensile strength and excellent chemical and thermal resistance for an FDM thermoplastic.

Material features:

- Low smoke evolution
- Inherent flame retardant
- High thermal properties 217°C (Tg)
- Dimensional stability
- Outstanding strength and amorphous thermoplastic

Colours:

PEI ULTEM™ 1010 is available in 1 colour.

NA1

Packaging:

PEI ULTEM™ 1010 is available on our standard transparent reel.*

Ask our team to help you customizing your product.

**Dry +4 hours at max.110°C*



Filament specs.

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

Material properties

Description	Testmethod	Typical value
Specific gravity	ISO 1183	1.27 g/cc
MFR 340°C/5kg	ISO 1133	11 g/10 min
Tensile strength at Yield	ISO 527	105 MPa
Tensile strength at Break	ISO 527	54 MPa
Elongation-strain at Break	ISO 527	60%
Elongation-strain at Yield	ISO 527	6%
Tensile (E) modulus	ISO 527	3200 MPa
Impact strength - Charpy notched 23°C	ISO 180	5 kJ/m2
Flexural modulus	ISO 178	3200 MPa
Flexural strength	ISO 178	160 MPa
Flame retardancy	UL94 (1,5mm)	V-0
Vicat softening temp. B	ISO 306	211°C
Heat deflection temp. B	ISO 75	200°C
Printing temp.	Internal Method	370±20°C

Additional info:

Recommended temperature for heated bed is ± 120-160°C. Adhesion is possible on different surfaces.

PEI ULTEM™ 1010 can be used on (Storage: Cool and dry (15-25°C) and away from UV light. This enhances the shelf life significantly.