

# PEI ULTEM™ 9085

PEI ULTEM™ 9085 (Polyether Imide) is a **high-performance polymer** with excellent mechanical performance. This material is UL 94-V0 rated and has a glass transition temperature (Tg) of 186 °C. PEI ULTEM™ 9085 is perfect for applications in for example the aerospace-, automotive- and electrical industry. This material is a combination of exceptional dimensional stability, inherent flame retardancy, excellent thermal properties and good chemical resistance.

**Material features:**

- Low smoke evolution
- High thermal properties
- Excellent chemical resistance
- High glass transition temperature (Tg)
- Flame retardant\*

*\*Yellow card not available*

**Colours:**

PEI ULTEM™ 9085 is available in 1 colour.

NA1

**Packaging:**

PEI ULTEM™ 9085 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	1.34 g/cc
MFR 340°C/5kg	ISO 1133	30 g/10 min
Tensile strength at yield	ISO 527	88 MPa
Tensile strength at Break	ISO 527	71 MPa
Elongation-strain at break	ISO 527	50%
Elongation-strain at yield	ISO 527	6.7%
Tensile (E ) modulus	ISO 527	3050 MPa
Impact strength - Charpy method 23°C	ISO 179	11 kJ/m2
Flexural modulus	ISO 178	2750 MPa
Flexural strength	ISO 178	90 MPa
Vicat softening temp. B120	ISO 306	173°C
Heat deflection temp.	ASTM D648	153°C
Printing temp.	Internal Method	365±15°C

**Additional info:**

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

PEI ULTEM™ 9085 can be used on desktop FDM or FFF technology 3D printers able to reach the high required temperatures.

Storage: Cool and dry (15-25°C) and away from UV light. This enhances the shelf life significantly.