

# Ultem 9085

Polyetherimide (PEI)

ULTEM™ 9085 is a high-performance polymer that combines excellent thermal, mechanical, and chemical properties. Designed for demanding applications in the automotive, aerospace, and transport sectors, it consistently delivers reliable performance. Its versatility makes it the ideal choice for innovative solutions across a broad range of industrial fields.



## Material properties

Density	ISO 1183	1,28	g/cm³
Water absorption at saturation	ISO 62	0,15	%
Hygroscopicity	ISO 62	0,1	%
Elongation at break	ISO 527	70	%
Yield strength	ISO 527	94	MPa
Elastic modulus	ISO 527	2439	MPa
Flexural strength	ISO 178	129	MPa
Resilience	ISO 179	10	kJ/m²
HDT 0.45 MPa	ISO 75	169	°C
Vicat softening temperature	ISO 306	175	°C
Melting temperature	ISO 11357	330-350	°C
Flammability	UL94	V-0	

### Printing layer height

#### Maximum dimensions

600 x 400 x 400 mm (23,6 x 15,8 x 15,8 in)

#### Tolerances

±0,60mm < 100mm ; ±0,75% > 100mm

#### Applications

Ultem is used in aerospace, automotive and railway applications, where its high performance in extreme conditions is essential to ensure reliability and safety.

#### Certifications

UL94 V-0 classification

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