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