

SABIC Innovative Plastics ULTEM 1285 PEI (Asia Pacific)

Category : Polymer , Thermoplastic , Polyetherimide (PEI)

Material Notes:

Transparent Polyetherimide blend. ECO Conforming. US FDA and EU Food Contact compliant in recognized colors.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-ULTEM-1285-PEI-Asia-Pacific.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.29 g/cc	1.29 g/cc	ASTM D792
Linear Mold Shrinkage, Flow	0.0060 - 0.0070 cm/cm @Thickness 3.20 mm	0.0060 - 0.0070 in/in @Thickness 0.126 in	SABIC Method
Melt Flow	8.1 g/10 min @Load 6.60 kg, Temperature 295 Å°C	8.1 g/10 min @Load 14.6 lb, Temperature 563 Å°F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	82.0 MPa	11900 psi	Type I, 5 mm/min; ASTM D638
Tensile Strength, Yield	110 MPa	16000 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	60 %	60 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	3.37 GPa	489 ksi	5 mm/min; ASTM D638
Flexural Yield Strength	165 MPa	23900 psi	2.6 mm/min, 100 mm span; ASTM D790
Flexural Modulus	3.37 GPa	489 ksi	2.6 mm/min, 100 mm span; ASTM D790
Izod Impact, Notched	0.260 J/cm	0.487 ft-lb/in	ASTM D256
	9.50 J/cm @Thickness 3.20 mm	17.8 ft-lb/in @Thickness 0.126 in	ASTM D256
Dart Drop, Total Energy	40.0 J @Temperature 23.0 Å°C	29.5 ft-lb @Temperature 73.4 Å°F	ASTM D3763

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	48.6 Åµm/m-Å°C @Temperature -40.0 - 40.0 Å°C	27.0 Åµin/in-Å°F @Temperature -40.0 - 104 Å°F	ASTM E 831

Thermal Properties	48.6 Åum/m-Å°C Metric	27.0 Åuin/in-Å°F English	Comments
CTE, linear, Transverse to Flow	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	ASTM E 831
Deflection Temperature at 1.8 MPa (264 psi)	165 Å°C @Thickness 6.40 mm	329 Å°F @Thickness 0.252 in	unannealed; ASTM D648
Vicat Softening Point	181 Å°C	358 Å°F	Rate B/50; ASTM D1525

Optical Properties	Metric	English	Comments
Transmission, Visible	90 %	90 %	transparent; thickness not quantified

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