

SABIC Innovative Plastics ULTEM 1285 PEI

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.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	0.0060 - 0.0070 in/in	SABIC Method
	@Thickness 3.20 mm	@Thickness 0.126 in	
Melt Flow	8.1 g/10 min	8.1 g/10 min	ASTM D1238
	@Load 6.60 kg, Temperature 295 Â°C	@Load 14.6 lb, Temperature 563 Â°F	

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	17.8 ft-lb/in	ASTM D256
Dart Drop, Total Energy	@Thickness 3.20 mm	@Thickness 0.126 in	ASTM D3763
	40.0 J	29.5 ft-lb	
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	

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

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