

SABIC Innovative Plastics Ultem 1100R PEI

Category : Polymer , Thermoplastic , Polyetherimide (PEI)

Material Notes:

Standard flow Polyetherimide (Tg 217C) with internal mold release. ECO Conforming. This data was supplied by SABIC-IP for the Americas region.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-Ultem-1100R-PEI.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.36 g/cc	1.36 g/cc	ASTM D 792
Linear Mold Shrinkage, Flow	0.0050 - 0.0070 cm/cm @Thickness 3.20 mm	0.0050 - 0.0070 in/in @Thickness 0.126 in	SABIC Method
Melt Flow	11.2 g/10 min @Load 6.60 kg, Temperature 337 Å°C	11.2 g/10 min @Load 14.6 lb, Temperature 639 Å°F	ASTM D 1238

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	110 MPa	16000 psi	Type I, 5 mm/min; ASTM D 638
Elongation at Break	70 %	70 %	Type I, 5 mm/min; ASTM D 638
Tensile Modulus	3.72 GPa	540 ksi	5 mm/min; ASTM D 638
Flexural Yield Strength	165 MPa	23900 psi	2.6 mm/min, 100 mm span; ASTM D 790
Flexural Modulus	3.51 GPa	509 ksi	2.6 mm/min, 100 mm span; ASTM D 790
Izod Impact, Notched	0.370 J/cm @Temperature 23.0 Å°C	0.693 ft-lb/in @Temperature 73.4 Å°F	ASTM D 256
	15.48 J/cm @Thickness 3.20 mm	29.00 ft-lb/in @Thickness 0.126 in	reverse notched; ASTM D 256
Gardner Impact	21.0 J @Temperature 23.0 Å°C	15.5 ft-lb @Temperature 73.4 Å°F	ASTM D 3029

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	198 Å°C @Thickness 6.40 mm	388 Å°F @Thickness 0.252 in	unannealed; ASTM D 648

Thermal Properties	Metric	English	Comments
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Glass Transition Temp, Tg

217A C

217A F

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