

SABIC Innovative Plastics Ultem 2100N PEI

Category : Polymer , Thermoplastic , Polyetherimide (PEI)

Material Notes:

10% Glass fiber filled, standard flow Polyetherimide (Tg 217C). 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-2100N-PEI.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.34 g/cc	1.34 g/cc	ASTM D 792
Water Absorption	0.21 % @Time 86400 sec	0.21 % @Time 24.0 hour	ASTM D 570
Moisture Absorption at Equilibrium	1.2 % @Temperature 23.0 Å°C	1.2 % @Temperature 73.4 Å°F	ASTM D 570
Linear Mold Shrinkage, Flow	0.0050 - 0.0060 cm/cm @Thickness 3.20 mm	0.0050 - 0.0060 in/in @Thickness 0.126 in	SABIC Method
Melt Flow	7.0 g/10 min @Load 6.60 kg, Temperature 337 Å°C	7.0 g/10 min @Load 14.6 lb, Temperature 639 Å°F	ASTM D 1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	114	114	ASTM D 785
Tensile Strength at Break	115 MPa	16700 psi	Type I, 5 mm/min; ASTM D 638
Tensile Strength, Yield	114 MPa	16500 psi	Type I, 5 mm/min; ASTM D 638
Elongation at Break	6.0 %	6.0 %	Type I, 5 mm/min; ASTM D 638
Tensile Modulus	4.68 GPa	679 ksi	5 mm/min; ASTM D 638
Flexural Strength	199 MPa	28900 psi	2.6 mm/min, 100 mm span; ASTM D 790
Flexural Modulus	5.17 GPa	750 ksi	2.6 mm/min, 100 mm span; ASTM D 790
Izod Impact, Notched	0.530 J/cm @Temperature 23.0 Å°C	0.993 ft-lb/in @Temperature 73.4 Å°F	ASTM D 256
	4.59 J/cm	8.60 ft-lb/in	

Mechanical Properties	Metric @ Thickness 3.20 mm	English @ Thickness 0.126 in	reverse notched; ASTM D 256 Comments
Izod Impact, Unnotched	4.80 J/cm @Temperature 23.0 Â°C	8.99 ft-lb/in @Temperature 73.4 Â°F	ASTM D 4812

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	32.4 Âµm/m-Â°C @Temperature -20.0 - 150 Â°C	18.0 Âµin/in-Â°F @Temperature -4.00 - 302 Â°F	ASTM E 831
Deflection Temperature at 0.46 MPa (66 psi)	210 Â°C @Thickness 6.40 mm	410 Â°F @Thickness 0.252 in	unannealed; ASTM D 648
Deflection Temperature at 1.8 MPa (264 psi)	208 Â°C @Thickness 6.40 mm	406 Â°F @Thickness 0.252 in	unannealed; ASTM D 648
Vicat Softening Point	223 Â°C	433 Â°F	Rate B/50; ASTM D 1525
Glass Transition Temp, Tg	217 Â°C	423 Â°F	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+17 ohm-cm	1.00e+17 ohm-cm	ASTM D 257
Dielectric Constant	3.5 @Frequency 1000 Hz	3.5 @Frequency 1000 Hz	ASTM D 150
Dielectric Strength	27.5 kV/mm @Thickness 1.60 mm	699 kV/in @Thickness 0.0630 in	in oil; ASTM D 149
Dissipation Factor	0.0014 @Frequency 1000 Hz	0.0014 @Frequency 1000 Hz	ASTM D 150
	0.0046 @Frequency 2.45e+9 Hz	0.0046 @Frequency 2.45e+9 Hz	ASTM D 150

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