

SABIC Innovative Plastics Ultem 3451 PEI (Asia Pacific)

Category : Polymer , Thermoplastic , Polyetherimide (PEI)

Material Notes:

45% Glass fiber and mineral filled, standard flow Polyetherimide (Tg 217C) with enhanced dimensional stability. ECO Conforming. This data was supplied by SABIC-IP for the Asia Pacific region.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-Ultem-3451-PEI-Asia-Pacific.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.66 g/cc	1.66 g/cc	ASTM D 792
Linear Mold Shrinkage, Flow	0.0015 - 0.0025 cm/cm @Thickness 3.20 mm	0.0015 - 0.0025 in/in @Thickness 0.126 in	SABIC Method
Linear Mold Shrinkage, Transverse	0.0030 - 0.0050 cm/cm @Thickness 3.20 mm	0.0030 - 0.0050 in/in @Thickness 0.126 in	SABIC Method
Melt Flow	2.7 g/10 min @Load 6.60 kg, Temperature 337 Â°C	2.7 g/10 min @Load 14.6 lb, Temperature 639 Â°F	ASTM D 1238

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	131 MPa	19000 psi	Type I, 5 mm/min; ASTM D 638
Elongation at Break	1.4 %	1.4 %	Type I, 5 mm/min; ASTM D 638
Tensile Modulus	11.72 GPa	1700 ksi	5 mm/min; ASTM D 638
Flexural Strength	179 MPa	26000 psi	2.6 mm/min, 100 mm span; ASTM D 790
Flexural Modulus	11.72 GPa	1700 ksi	2.6 mm/min, 100 mm span; ASTM D 790
Izod Impact, Notched	0.530 J/cm @Temperature 23.0 Â°C	0.993 ft-lb/in @Temperature 73.4 Â°F	ASTM D 256
	2.29 J/cm @Thickness 3.20 mm	4.29 ft-lb/in @Thickness 0.126 in	reverse notched; ASTM D 256

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	10.8 Âµm/m-Â°C @Temperature -20.0 - 150 Â°C	6.00 Âµin/in-Â°F @Temperature -4.00 - 302 Â°F	ASTM E 831

Thermal Properties	Metric 21.9 Åµm/m-Å°C	English 12.7 Åµm/in-Å°F	Comments
CTE, linear, Transverse to Flow	@Temperature -20.0 - 150 Å°C	@Temperature -4.00 - 302 Å°F	ASTM E 831
Deflection Temperature at 1.8 MPa (264 psi)	212 Å°C @Thickness 6.40 mm	414 Å°F @Thickness 0.252 in	unannealed; ASTM D 648
Glass Transition Temp, Tg	217 Å°C	423 Å°F	

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