

SABIC Innovative Plastics ULTEM 3452 PEI

Category : Polymer , Thermoplastic , Polyetherimide (PEI)

Material Notes:

45% Glass fiber and mineral filled, enhanced flow Polyetherimide (Tg 217C) with enhanced dimensional stability. ECO Conforming, UL94 V0 and 5VA listing in recognized colors.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-ULTEM-3452-PEI.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.66 g/cc	1.66 g/cc	ASTM D792
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	4.6 g/10 min @Load 6.60 kg, Temperature 337 Â°C	4.6 g/10 min @Load 14.6 lb, Temperature 639 Â°F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	131 MPa	19000 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	1.4 %	1.4 %	Type I, 5 mm/min; ASTM D638
Flexural Strength	179 MPa	26000 psi	2.6 mm/min, 100 mm span; ASTM D790
Flexural Modulus	12.41 GPa	1800 ksi	2.6 mm/min, 100 mm span; ASTM D790
Izod Impact, Notched	0.580 J/cm	1.09 ft-lb/in	ASTM D256
	2.18 J/cm @Thickness 3.20 mm	4.08 ft-lb/in @Thickness 0.126 in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	212 Â°C @Thickness 6.40 mm	414 Â°F @Thickness 0.252 in	unannealed; ASTM D648
Glass Transition Temp, Tg	217 Â°C	423 Â°F	
UL RTI, Electrical	180 Â°C	356 Â°F	UL 746B

UL RTI, Mechanical with Impact Thermal Properties	180 Å°C Metric	356 Å°F English	UL 746B Comments
UL RTI, Mechanical without Impact	180 Å°C	356 Å°F	UL 746B
Flammability, UL94	V-0 @Thickness 0.780 mm	V-0 @Thickness 0.0307 in	UL 94
	5VA @Thickness 2.99 mm	5VA @Thickness 0.118 in	UL 94

Electrical Properties	Metric	English	Comments
Arc Resistance	120 - 180 sec	120 - 180 sec	Tungsten; ASTM D495
Comparative Tracking Index	100 - 175 V	100 - 175 V	UL 746A
Hot Wire Ignition, HWI	60 - 120 sec	60 - 120 sec	UL 746A
High Amp Arc Ignition, HAI	0.00 - 15 arcs	0.00 - 15 arcs	UL 746A
High Voltage Arc-Tracking Rate, HVTR	>= 150 mm/min	>= 5.91 in/min	UL 746A

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