

SABIC Innovative Plastics ULTEM 2110 PEI

Category : Polymer , Thermoplastic , Polyetherimide (PEI)

Material Notes:

10% Glass fiber filled, enhanced flow Polyetherimide (Tg 217°C). ECO Conforming, UL94 V0 and 5VA listing.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-ULTEM-2110-PEI.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.34 g/cc	1.34 g/cc	ASTM D792
Melt Flow	11.3 g/10 min	11.3 g/10 min	ASTM D1238
	@Load 6.60 kg, Temperature 337 °C	@Load 14.6 lb, Temperature 639 °F	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	115 MPa	16700 psi	Type I, 5 mm/min; ASTM D638
Tensile Strength, Yield	114 MPa	16500 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	6.0 %	6.0 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	4.61 GPa	669 ksi	5 mm/min; ASTM D638
Flexural Strength	199 MPa	28900 psi	2.6 mm/min, 100 mm span; ASTM D790
Flexural Modulus	5.24 GPa	760 ksi	2.6 mm/min, 100 mm span; ASTM D790
Izod Impact, Notched	0.480 J/cm	0.899 ft-lb/in	ASTM D256
	4.00 J/cm @Thickness 3.20 mm	7.49 ft-lb/in @Thickness 0.126 in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	207 °C @Thickness 6.40 mm	405 °F @Thickness 0.252 in	unannealed; ASTM D648
Glass Transition Temp, Tg	217 °C	423 °F	
UL RTI, Electrical	170 °C	338 °F	UL 746B
UL RTI, Mechanical with Impact	170 °C	338 °F	UL 746B
UL RTI, Mechanical without Impact	170 °C	338 °F	UL 746B
	V-0	V-0	

Flammability, UL 94 Thermal Properties	Metric @ Thickness 0.400 mm	English @ Thickness 0.0157 in	UL 94 Comments
	5VA	5VA	UL 94
	@Thickness 1.90 mm	@Thickness 0.0748 in	

Electrical Properties	Metric	English	Comments
Arc Resistance	60 - 120 sec	60 - 120 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	25.4 - 80.0 mm/min	1.00 - 3.15 in/min	UL 746A

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