

SABIC Innovative Plastics ULTEM 2310 PEI

Category : Polymer , Thermoplastic , Polyetherimide (PEI)

Material Notes:

30% Glass fiber filled, enhanced flow Polyetherimide (Tg 217C). ECO Conforming, UL94 V0 and 5VA listing.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-ULTEM-2310-PEI.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.51 g/cc	1.51 g/cc	ASTM D792
Linear Mold Shrinkage, Flow	0.0020 - 0.0040 cm/cm @Thickness 3.20 mm	0.0020 - 0.0040 in/in @Thickness 0.126 in	SABIC Method
Linear Mold Shrinkage, Transverse	0.0020 - 0.0040 cm/cm @Thickness 3.20 mm	0.0020 - 0.0040 in/in @Thickness 0.126 in	SABIC Method
Melt Flow	7.6 g/10 min @Load 6.60 kg, Temperature 337 Â°C	7.6 g/10 min @Load 14.6 lb, Temperature 639 Â°F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	158 MPa	22900 psi	Type I, 5 mm/min; ASTM D638
Tensile Strength, Yield	168 MPa	24400 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	2.0 %	2.0 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	9.23 GPa	1340 ksi	5 mm/min; ASTM D638
Flexural Strength	220 MPa	31900 psi	2.6 mm/min, 100 mm span; ASTM D790
Flexural Modulus	9.23 GPa	1340 ksi	2.6 mm/min, 100 mm span; ASTM D790
Izod Impact, Notched	0.850 J/cm	1.59 ft-lb/in	ASTM D256
	4.37 J/cm @Thickness 3.20 mm	8.19 ft-lb/in @Thickness 0.126 in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	16.2 Âµm/m-Â°C @Temperature -20.0 - 150 Â°C	9.00 Âµin/in-Â°F @Temperature -4.00 - 302 Â°F	ASTM E 831
	41.4 Âµm/m-Â°C	23.0 Âµin/in-Â°F	

Thermal Properties	Metric	English	Comments
Softening Point to Flow	@ Temperature -20.0 - 150 Â°C	@ Temperature -4.00 - 302 Â°F	
Deflection Temperature at 1.8 MPa (264 psi)	210 Â°C @Thickness 6.40 mm	410 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	170 Â°C	338 Â°F	UL 746B
UL RTI, Mechanical without Impact	180 Â°C	356 Â°F	UL 746B
Flammability, UL94	V-0 @Thickness 0.250 mm	V-0 @Thickness 0.00984 in	UL 94
	5VA @Thickness 1.21 mm	5VA @Thickness 0.0476 in	UL 94

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	80.0 - 150 mm/min	3.15 - 5.91 in/min	UL 746A

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