

SABIC Innovative Plastics ULTEM 2312 PEI

Category : Polymer , Thermoplastic , Polyetherimide (PEI)

Material Notes:

30% Milled glass 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-2312-PEI.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.51 g/cc	1.51 g/cc	ASTM D792
Water Absorption	0.18 %	0.18 %	ASTM D570
	@Time 86400 sec	@Time 24.0 hour	
Moisture Absorption at Equilibrium	0.98 %	0.98 %	ASTM D570
Linear Mold Shrinkage, Flow	0.0030 - 0.0040 cm/cm	0.0030 - 0.0040 in/in	SABIC Method
	@Thickness 3.20 mm	@Thickness 0.126 in	
Linear Mold Shrinkage, Transverse	0.0045 - 0.0055 cm/cm	0.0045 - 0.0055 in/in	SABIC Method
	@Thickness 3.20 mm	@Thickness 0.126 in	
Melt Flow	10.1 g/10 min	10.1 g/10 min	ASTM D1238
	@Load 6.60 kg, Temperature 337 Â°C	@Load 14.6 lb, Temperature 639 Â°F	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	103 MPa	14900 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	3.5 %	3.5 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	5.99 GPa	869 ksi	5 mm/min; ASTM D638
Flexural Strength	179 MPa	26000 psi	2.6 mm/min, 100 mm span; ASTM D790
Flexural Modulus	6.55 GPa	950 ksi	2.6 mm/min, 100 mm span; ASTM D790
Izod Impact, Notched	0.320 J/cm	0.599 ft-lb/in	ASTM D256
	3.09 J/cm	5.79 ft-lb/in	ASTM D256
@Thickness 3.20 mm	@Thickness 0.126 in		

Thermal Properties	Metric	English	Comments
	23.4 Âµm/m-Â°C	13.0 Âµin/in-Â°F	

CTE, linear, Parallel to Flow Thermal Properties	Metric @Temperature -20.0 - 150 Â°C	English @Temperature -4.00 - 302 Â°F	ASTM E 831 Comments
CTE, linear, Transverse to Flow	27.0 Âµm/m-Â°C @Temperature -20.0 - 150 Â°C	15.0 Âµin/in-Â°F @Temperature -4.00 - 302 Â°F	ASTM E 831
Deflection Temperature at 1.8 MPa (264 psi)	207 Â°C @Thickness 6.40 mm	405 Â°F @Thickness 0.252 in	unannealed; ASTM D648
Glass Transition Temp, Tg	217 Â°C	423 Â°F	
UL RTI, Electrical	170 Â°C	338 Â°F	UL 746B
UL RTI, Mechanical with Impact	170 Â°C	338 Â°F	UL 746B
UL RTI, Mechanical without Impact	170 Â°C	338 Â°F	UL 746B
Flammability, UL94	V-0 @Thickness 0.810 mm	V-0 @Thickness 0.0319 in	UL 94

Electrical Properties	Metric	English	Comments
Dielectric Constant	3.49 @Frequency 1.00e+6 Hz	3.49 @Frequency 1.00e+6 Hz	ASTM D150
	3.7 @Frequency 1000 Hz	3.7 @Frequency 1000 Hz	ASTM D150
Arc Resistance	0.00 - 60 sec	0.00 - 60 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	15 - 30 arcs	15 - 30 arcs	UL 746A
High Voltage Arc-Tracking Rate, HVTR	0.000 - 10.0 mm/min	0.000 - 0.394 in/min	UL 746A

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