

SABIC Innovative Plastics Ultem 2313 PEI

Category : Polymer , Thermoplastic , Polyetherimide (PEI)

Material Notes:

30% Milled glass filled, enhanced flow Polyetherimide (Tg 217C) with enhanced electroplatability. ECO Conforming, UL94 V0 and 5VA listing. This data was supplied by SABIC-IP for the Americas region.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-Ultem-2313-PEI.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.52 g/cc	1.52 g/cc	ASTM D 792
Water Absorption	0.18 % @Time 86400 sec	0.18 % @Time 24.0 hour	ASTM D 570
Moisture Absorption at Equilibrium	0.98 % @Temperature 23.0 Â°C	0.98 % @Temperature 73.4 Â°F	ASTM D 570
Linear Mold Shrinkage, Flow	0.0030 - 0.0040 cm/cm @Thickness 3.20 mm	0.0030 - 0.0040 in/in @Thickness 0.126 in	SABIC Method
Linear Mold Shrinkage, Transverse	0.0045 - 0.0055 cm/cm @Thickness 3.20 mm	0.0045 - 0.0055 in/in @Thickness 0.126 in	SABIC Method
Melt Flow	9.3 g/10 min @Load 6.60 kg, Temperature 337 Â°C	9.3 g/10 min @Load 14.6 lb, Temperature 639 Â°F	ASTM D 1238

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	86.0 MPa	12500 psi	Type I, 5 mm/min; ASTM D 638
Elongation at Break	3.0 %	3.0 %	Type I, 5 mm/min; ASTM D 638
Flexural Strength	172 MPa	24900 psi	2.6 mm/min, 100 mm span; ASTM D 790
Flexural Modulus	6.96 GPa	1010 ksi	2.6 mm/min, 100 mm span; ASTM D 790
Izod Impact, Notched	0.320 J/cm @Temperature 23.0 Â°C	0.599 ft-lb/in @Temperature 73.4 Â°F	ASTM D 256
	2.67 J/cm @Thickness 3.20 mm	5.00 ft-lb/in @Thickness 0.126 in	reverse notched; ASTM D 256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	207 Â°C @Thickness 6.40 mm	405 Â°F @Thickness 0.252 in	unannealed; ASTM D 648
Glass Transition Temp, Tg	217 Â°C	423 Â°F	
UL RTI, Electrical	105 Â°C	221 Â°F	UL 746B
UL RTI, Mechanical with Impact	105 Â°C	221 Â°F	UL 746B
UL RTI, Mechanical without Impact	105 Â°C	221 Â°F	UL 746B
Flammability, UL94	V-0 @Thickness 0.350 mm	V-0 @Thickness 0.0138 in	UL 94

Electrical Properties	Metric	English	Comments
Dielectric Constant	3.7 @Frequency 1000 Hz	3.7 @Frequency 1000 Hz	ASTM D 150
Arc Resistance	60 - 120 sec	60 - 120 sec	Tungsten, PLC code 6; ASTM D 495
Comparative Tracking Index	100 - 175 V	100 - 175 V	PLC code 4; UL 746A
Hot Wire Ignition, HWI	60 - 120 sec	60 - 120 sec	PLC code 1; UL 746A
High Amp Arc Ignition, HAI	0.00 - 15 arcs	0.00 - 15 arcs	surface, PLC code 4; UL 746A
High Voltage Arc-Tracking Rate, HVTR	25.4 - 80.0 mm/min	1.00 - 3.15 in/min	PLC code 2; UL 746A

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China