

SABIC Innovative Plastics ULTEM 2212EPR PEI

Category : Polymer , Thermoplastic , Polyetherimide (PEI)

Material Notes:

20% Milled glass filled, high flow Polyetherimide (Tg 217C) with internal mold release and enhanced electroplatability. ECO Conforming, UL94 V0 and 5VA lising.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-ULTEM-2212EPR-PEI.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.40 g/cc	1.40 g/cc	ASTM D792
Linear Mold Shrinkage, Flow	0.0050 - 0.0070 cm/cm @Thickness 3.20 mm	0.0050 - 0.0070 in/in @Thickness 0.126 in	SABIC Method
Linear Mold Shrinkage, Transverse	0.0050 - 0.0070 cm/cm @Thickness 3.20 mm	0.0050 - 0.0070 in/in @Thickness 0.126 in	SABIC Method
Melt Flow	15 g/10 min @Load 6.60 kg, Temperature 337 Â°C	15 g/10 min @Load 14.6 lb, Temperature 639 Â°F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	107 MPa	15500 psi	Type I, 5 mm/min; ASTM D638
Tensile Strength, Yield	107 MPa	15500 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	3.0 %	3.0 %	Type I, 5 mm/min; ASTM D638
Elongation at Yield	3.0 %	3.0 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	5.79 GPa	840 ksi	5 mm/min; ASTM D638
Flexural Strength	172 MPa	24900 psi	2.6 mm/min, 100 mm span; ASTM D790
Flexural Yield Strength	172 MPa	24900 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	5.10 GPa	740 ksi	2.6 mm/min, 100 mm span; ASTM D790
	5.51 GPa	799 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	0.580 J/cm	1.09 ft-lb/in	ASTM D256
Izod Impact, Unnotched	4.80 J/cm	8.99 ft-lb/in	ASTM D4812
	12.0 J	8.85 ft-lb	

Mechanical Properties	Metric	English	Comments
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	ASTM D3763

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	36.0 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	20.0 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ASTM E 831
CTE, linear, Transverse to Flow	72.0 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	40.0 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ASTM E 831
Deflection Temperature at 0.46 MPa (66 psi)	210 Â°C @Thickness 3.20 mm	410 Â°F @Thickness 0.126 in	unannealed; ASTM D648
	212 Â°C @Thickness 6.40 mm	414 Â°F @Thickness 0.252 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	205 Â°C @Thickness 3.20 mm	401 Â°F @Thickness 0.126 in	unannealed; ASTM D648
	207 Â°C @Thickness 6.40 mm	405 Â°F @Thickness 0.252 in	unannealed; ASTM D648
Vicat Softening Point	210 Â°C	410 Â°F	Rate B/50; ASTM D1525
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 0.400 mm	V-0 @Thickness 0.0157 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

Electrical Properties	Metric	English	Comments
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