

SABIC Innovative Plastics ULTEM 2212R PEI

Category : Polymer , Thermoplastic , Polyetherimide (PEI)

Material Notes:

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

Order this product through the following link:

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

Physical Properties	Metric	English	Comments
Specific Gravity	1.43 g/cc	1.43 g/cc	ASTM D792
Melt Flow	13.5 g/10 min	13.5 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	92.0 MPa	13300 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	6.0 %	6.0 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	4.27 GPa	619 ksi	5 mm/min; ASTM D638
Flexural Strength	172 MPa	24900 psi	2.6 mm/min, 100 mm span; ASTM D790
Flexural Modulus	5.10 GPa	740 ksi	2.6 mm/min, 100 mm span; ASTM D790
Izod Impact, Notched	0.480 J/cm	0.899 ft-lb/in	ASTM D256
	3.84 J/cm @Thickness 3.20 mm	7.19 ft-lb/in @Thickness 0.126 in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	205 Â°C	401 Â°F	unannealed; ASTM D648
	@Thickness 6.40 mm	@Thickness 0.252 in	
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	V-0	UL 94
	@Thickness 0.400 mm	@Thickness 0.0157 in	

Thermal Properties	Metric	English	Comments
Electrical Properties	Metric	English	Comments
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	25.4 - 80.0 mm/min	1.00 - 3.15 in/min	UL 746A

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