

SABIC Innovative Plastics ULTEM CRS5111 PEI

Category : Polymer , Thermoplastic , Polyetherimide (PEI)

Material Notes:

10% Glass fiber filled, enhanced flow Polyetherimide copolymer (Tg 225C) with enhanced chemical resistance to strong acids, bases, aromatics, and ketones. ECO conforming, UL94 V0 and 5 VA listing.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-ULTEM-CRS5111-PEI.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.36 g/cc	1.36 g/cc	ASTM D792
Melt Flow	6.9 g/10 min	6.9 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	112 MPa	16200 psi	Type I, 5 mm/min; ASTM D638
Tensile Strength, Yield	117 MPa	17000 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	4.0 %	4.0 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	4.75 GPa	689 ksi	5 mm/min; ASTM D638
Flexural Yield Strength	193 MPa	28000 psi	2.6 mm/min, 100 mm span; ASTM D790
Flexural Modulus	4.89 GPa	709 ksi	2.6 mm/min, 100 mm span; ASTM D790
Izod Impact, Notched	0.370 J/cm	0.693 ft-lb/in	ASTM D256
	3.57 J/cm @Thickness 3.20 mm	6.69 ft-lb/in @Thickness 0.126 in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	215 Â°C @Thickness 6.40 mm	419 Â°F @Thickness 0.252 in	unannealed; ASTM D648
Glass Transition Temp, Tg	225 Â°C	437 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

Thermal Properties	Metric	English	Comments
Flammability, UL94	@Thickness 1.47 mm	@Thickness 0.0579 in	UL 94
	5VA	5VA	UL 94
	@Thickness 1.47 mm	@Thickness 0.0579 in	

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	>= 120 sec	>= 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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