

SABIC Innovative Plastics ULTEM CRS5311 PEI

Category : Polymer , Thermoplastic , Polyetherimide (PEI)

Material Notes:

30% 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 5VA listing.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-ULTEM-CRS5311-PEI.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.52 g/cc	1.52 g/cc	ASTM D792
Linear Mold Shrinkage, Flow	0.0020 - 0.0040 cm/cm @Thickness 3.20 mm	0.0020 - 0.0040 in/in @Thickness 0.126 in	SABIC Method
Melt Flow	4.0 g/10 min @Load 6.60 kg, Temperature 337 Â°C	4.0 g/10 min @Load 14.6 lb, Temperature 639 Â°F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	165 MPa	23900 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	3.0 %	3.0 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	8.96 GPa	1300 ksi	5 mm/min; ASTM D638
Flexural Yield Strength	234 MPa	33900 psi	2.6 mm/min, 100 mm span; ASTM D790
Flexural Modulus	8.96 GPa	1300 ksi	2.6 mm/min, 100 mm span; ASTM D790
Izod Impact, Notched	0.960 J/cm	1.80 ft-lb/in	ASTM D256
	1.60 J/cm	3.00 ft-lb/in	natural, tints; ASTM D256
	5.07 J/cm @Thickness 3.20 mm	9.50 ft-lb/in @Thickness 0.126 in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	218 Â°C @Thickness 6.40 mm	424 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

Thermal Properties	Metric	English	Comments
UL RTI, Mechanical without Impact	105 Â°C	221 Â°F	UL 746B
Flammability, UL94	V-0	V-0	UL 94
	@Thickness 1.47 mm	@Thickness 0.0579 in	
	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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