

SABIC Innovative Plastics ULTEM CRS5711 PEI

Category : Polymer , Thermoplastic , Polyetherimide (PEI)

Material Notes:

15% 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-CRS5711-PEI.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.38 g/cc	1.38 g/cc	ASTM D792
Melt Flow	6.8 g/10 min	6.8 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	124 MPa	18000 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	4.0 %	4.0 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	5.03 GPa	730 ksi	5 mm/min; ASTM D638
Flexural Yield Strength	209 MPa	30300 psi	2.6 mm/min, 100 mm span; ASTM D790
Flexural Modulus	5.58 GPa	809 ksi	2.6 mm/min, 100 mm span; ASTM D790
Izod Impact, Notched	0.850 J/cm	1.59 ft-lb/in	ASTM D256
	4.80 J/cm @Thickness 3.20 mm	8.99 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	424 Â°F	unannealed; ASTM D648
	@Thickness 6.40 mm	@Thickness 0.252 in	
Glass Transition Temp, Tg	225 Â°C	437 Â°F	

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