

SABIC Innovative Plastics ULTEM CRS5201R PEI

Category : Polymer , Thermoplastic , Polyetherimide (PEI)

Material Notes:

20% Glass fiber filled, standard flow Polyetherimide copolymer (Tg 225C) with internal mold release and enhanced chemical resistance to strong acids, bases, aromatics, and ketones. ECO Conforming.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-ULTEM-CRS5201R-PEI.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.42 g/cc	1.42 g/cc	ASTM D792
Melt Flow	3.1 g/10 min @Load 6.60 kg, Temperature 337 Â°C	3.1 g/10 min @Load 14.6 lb, Temperature 639 Â°F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	131 MPa	19000 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	5.0 %	5.0 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	6.89 GPa	999 ksi	5 mm/min; ASTM D638
Flexural Yield Strength	213 MPa	30900 psi	2.6 mm/min, 100 mm span; ASTM D790
Flexural Modulus	6.89 GPa	999 ksi	2.6 mm/min, 100 mm span; ASTM D790
Izod Impact, Notched	0.740 J/cm	1.39 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 @Thickness 6.40 mm	424 Â°F @Thickness 0.252 in	unannealed; ASTM D648
Glass Transition Temp, Tg	225 Â°C	437 Â°F	

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