

SABIC Innovative Plastics Ultem CRS5211 PEI (Asia Pacific)

Category : Polymer , Thermoplastic , Polyetherimide (PEI)

Material Notes:

20% 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. This data was supplied by SABIC-IP for the Asia Pacific region.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-Ultem-CRS5211-PEI-Asia-Pacific.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.42 g/cc	1.42 g/cc	ASTM D 792
Melt Flow	5.1 g/10 min @Load 6.60 kg, Temperature 337 Â°C	5.1 g/10 min @Load 14.6 lb, Temperature 639 Â°F	ASTM D 1238

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	137 MPa	19900 psi	Type I, 5 mm/min; ASTM D 638
Elongation at Break	3.0 %	3.0 %	Type I, 5 mm/min; ASTM D 638
Tensile Modulus	6.89 GPa	999 ksi	5 mm/min; ASTM D 638
Flexural Yield Strength	213 MPa	30900 psi	2.6 mm/min, 100 mm span; ASTM D 790
Flexural Modulus	6.89 GPa	999 ksi	2.6 mm/min, 100 mm span; ASTM D 790
Izod Impact, Notched	0.850 J/cm @Temperature 23.0 Â°C	1.59 ft-lb/in @Temperature 73.4 Â°F	ASTM D 256
	4.80 J/cm @Thickness 3.20 mm	8.99 ft-lb/in @Thickness 0.126 in	reverse notched; ASTM D 256

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 D 648
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, PLC code 5; ASTM D 495
Comparative Tracking Index	100 - 175 V	100 - 175 V	PLC code 4; UL 746A
Hot Wire Ignition, HWI	>= 120 sec	>= 120 sec	PLC code 0; UL 746A
High Amp Arc Ignition, HAI	0.00 - 15 arcs	0.00 - 15 arcs	surface, PLC code 4; UL 746A
High Voltage Arc-Tracking Rate, HVTR	80.0 - 150 mm/min	3.15 - 5.91 in/min	PLC code 3; UL 746A

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