

SABIC Innovative Plastics Ultem ATX100R PEI+PCE

Category : Polymer , Thermoplastic , Polyetherimide (PEI) , Polyetherimide (PEI) + PCE

Material Notes:

Higher impact, high flow Polyetherimide blend with internal mold release. ECO Conforming, UL94 HB listing. This data was supplied by SABIC-IP for the Americas region.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-Ultem-ATX100R-PEIPCE.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.21 g/cc	1.21 g/cc	ASTM D 792
Linear Mold Shrinkage, Flow	0.0050 - 0.0070 cm/cm @Thickness 3.20 mm	0.0050 - 0.0070 in/in @Thickness 0.126 in	SABIC Method
Melt Flow	6.4 g/10 min @Load 6.60 kg, Temperature 295 Å°C	6.4 g/10 min @Load 14.6 lb, Temperature 563 Å°F	ASTM D 1238

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	68.0 MPa	9860 psi	Type I, 5 mm/min; ASTM D 638
Elongation at Break	80 %	80 %	Type I, 5 mm/min; ASTM D 638
Flexural Yield Strength	106 MPa	15400 psi	2.6 mm/min, 100 mm span; ASTM D 790
Flexural Modulus	2.53 GPa	367 ksi	2.6 mm/min, 100 mm span; ASTM D 790
Izod Impact, Notched	3.73 J/cm @Temperature 23.0 Å°C	6.99 ft-lb/in @Temperature 73.4 Å°F	ASTM D 256
Izod Impact, Unnotched	20.82 J/cm @Temperature 23.0 Å°C	39.00 ft-lb/in @Temperature 73.4 Å°F	ASTM D 4812

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	157 Å°C @Thickness 6.40 mm	315 Å°F @Thickness 0.252 in	unannealed; ASTM D 648
UL RTI, Electrical	115 Å°C	239 Å°F	UL 746B
UL RTI, Mechanical with Impact	115 Å°C	239 Å°F	UL 746B

UL RTI Mechanical without Impact Thermal Properties	115 Å°C Metric	239 Å°F English	UL 746B Comments
Flammability, UL94	HB @Thickness 0.760 mm	HB @Thickness 0.0299 in	UL 94

Electrical Properties	Metric	English	Comments
Comparative Tracking Index	175 - 250 V	175 - 250 V	PLC code 3; UL 746A
Hot Wire Ignition, HWI	60 - 120 sec	60 - 120 sec	PLC code 1; UL 746A
High Amp Arc Ignition, HAI	>= 120 arcs	>= 120 arcs	surface, PLC code 0; UL 746A

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