

SABIC Innovative Plastics ULTEM AR9100 PEI

Category : Polymer , Thermoplastic , Polyetherimide (PEI)

Material Notes:

10% Glass fiber filled, standard flow Polyetherimide (Tg 217C). Meets FAR 25.853 and OSU 65/65 with low toxicity, smoke, and flame evolution. ECO Conforming.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-ULTEM-AR9100-PEI.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.32 g/cc	1.32 g/cc	ASTM D792
Linear Mold Shrinkage, Flow	0.0050 - 0.0060 cm/cm @Thickness 3.20 mm	0.0050 - 0.0060 in/in @Thickness 0.126 in	SABIC Method
Melt Flow	6.9 g/10 min @Load 6.60 kg, Temperature 337 °C	6.9 g/10 min @Load 14.6 lb, Temperature 639 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	119 MPa	17300 psi	Type I, 5 mm/min; ASTM D638
Tensile Strength, Yield	110 MPa	16000 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	8.0 %	8.0 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	4.34 GPa	629 ksi	5 mm/min; ASTM D638
Flexural Yield Strength	193 MPa	28000 psi	2.6 mm/min, 100 mm span; ASTM D790
Flexural Modulus	5.03 GPa	730 ksi	2.6 mm/min, 100 mm span; ASTM D790
Izod Impact, Notched	0.690 J/cm	1.29 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)	207 °C @Thickness 6.40 mm	405 °F @Thickness 0.252 in	unannealed; ASTM D648
Glass Transition Temp, Tg	217 °C	423 °F	

Descriptive Properties	Value	Comments
FAA Flammability, FAR 25.853 A/B	NATURAL	FAR 25.853
NBS Smoke Density, Flaming, Dmax	5	ASTM E 662
NBS Smoke Density, Flaming, Ds 1.5 min	0	ASTM E 662
NBS Smoke Density, Flaming, Ds 4 min	5	ASTM E 662
OSU total heat release (2 minute test)	5kW-min/m ²	FAR 25.853
OSU peak heat release rate (5 minute test)	40kW/m ²	FAR 25.853
Vertical Burn a (60s) passes at	0sec	FAR 25.853
Vertical Burn b (12s) passes at	0sec	FAR 25.853

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