

SABIC Innovative Plastics ULTEM AR9200 PEI

Category : Polymer , Thermoplastic , Polyetherimide (PEI)

Material Notes:

20% 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-AR9200-PEI.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.40 g/cc	1.40 g/cc	ASTM D792
Linear Mold Shrinkage, Flow	0.0030 - 0.0050 cm/cm @Thickness 3.20 mm	0.0030 - 0.0050 in/in @Thickness 0.126 in	SABIC Method
Melt Flow	5.7 g/10 min @Load 6.60 kg, Temperature 337 Å°C	5.7 g/10 min @Load 14.6 lb, Temperature 639 Å°F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	151 MPa	21900 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	3.0 %	3.0 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	6.96 GPa	1010 ksi	5 mm/min; ASTM D638
Flexural Yield Strength	206 MPa	29900 psi	2.6 mm/min, 100 mm span; ASTM D790
Flexural Modulus	7.23 GPa	1050 ksi	2.6 mm/min, 100 mm span; ASTM D790
Izod Impact, Notched	1.01 J/cm	1.89 ft-lb/in	ASTM D256
	5.34 J/cm @Thickness 3.20 mm	10.0 ft-lb/in @Thickness 0.126 in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	211 Å°C @Thickness 6.40 mm	412 Å°F @Thickness 0.252 in	unannealed; ASTM D648
Glass Transition Temp, Tg	217 Å°C	423 Å°F	

Descriptive Properties	Value	Comments
FAA Flammability, FAR 25.853 A/B	NATURAL	FAR 25.853

Descriptive Properties	Value	Comments
NBS Smoke Density, Flaming, Dmax	0	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

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China