

SABIC Innovative Plastics ULTEM 9076 PEI

Category : Polymer , Thermoplastic , Polyetherimide (PEI)

Material Notes:

Standard flow Polyetherimide Blend. 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-9076-PEI.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.30 g/cc	1.30 g/cc	ASTM D792
Halogen Content	0.00 %	0.00 %	SABIC Method
Linear Mold Shrinkage, Flow	0.0050 - 0.0070 cm/cm	0.0050 - 0.0070 in/in	SABIC Method
	@Thickness 3.20 mm	@Thickness 0.126 in	
Linear Mold Shrinkage, Transverse	0.0050 - 0.0070 cm/cm	0.0050 - 0.0070 in/in	SABIC Method
	@Thickness 3.20 mm	@Thickness 0.126 in	
Melt Flow	1.4 g/10 min	1.4 g/10 min	ASTM D1238
	@Load 6.60 kg, Temperature 295 Â°C	@Load 14.6 lb, Temperature 563 Â°F	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	96.0 MPa	13900 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	92 %	92 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	3.30 GPa	479 ksi	5 mm/min; ASTM D638
Flexural Strength	141 MPa	20500 psi	2.6 mm/min, 100 mm span; ASTM D790
Flexural Yield Strength	144 MPa	20900 psi	2.6 mm/min, 100 mm span; ASTM D790
Flexural Modulus	3.24 GPa	470 ksi	2.6 mm/min, 100 mm span; ASTM D790
Izod Impact, Notched	0.740 J/cm	1.39 ft-lb/in	ASTM D256
	21.36 J/cm @Thickness 3.20 mm	40.02 ft-lb/in @Thickness 0.126 in	
Gardner Impact	35.0 J	25.8 ft-lb	ASTM D3029

Thermal Properties	Metric	English	Comments
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Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (204 psi)	188 Å°C	370 Å°F	1;ASTM D648
	@Thickness 6.40 mm	@Thickness 0.252 in	

Descriptive Properties	Value	Comments
FAA Flammability, FAR 25.853 A/B	SECT A-1	FAR 25.853
OSU total heat release (2 minute test)	10kW-min/m^2	FAR 25.853
Vertical Burn a (60s) passes at	1sec	FAR 25.853
Vertical Burn b (12s) passes at	0sec	FAR 25.853

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