

SABIC Innovative Plastics ULTEM 9085 PEI Blend

Category : Polymer , Thermoplastic , Polyetherimide (PEI)

Material Notes:

High flow Polyetherimide blend. Meets FAR 25.853 and OSU 65/65 with low toxicity, smoke and flame evolution.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-ULTEM-9085-PEI-Blend.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.34 g/cc	1.34 g/cc	ASTM D792
Density	1.34 g/cc	0.0484 lb/in ³	ISO 1183
Moisture Absorption	0.170 %	0.170 %	23 ^o C / 50% RH; ISO 62
Water Absorption at Saturation	0.39 %	0.39 %	ISO 62
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	8.9 g/10 min @Load 6.60 kg, Temperature 295 ^o C	8.9 g/10 min @Load 14.6 lb, Temperature 563 ^o F	ASTM D1238
Melt Index of Compound	65 g/10 min @Load 5.00 kg, Temperature 360 ^o C	65 g/10 min @Load 11.0 lb, Temperature 680 ^o F	MVR [cm ³ /10 min]; ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	71.0 MPa	10300 psi	5 mm/min; ISO 527
	74.0 MPa	10700 psi	Type I, 5 mm/min; ASTM D638
Tensile Strength, Yield	84.0 MPa	12200 psi	Type I, 5 mm/min; ASTM D638
	88.0 MPa	12800 psi	5 mm/min; ISO 527
Elongation at Break	50 %	50 %	5 mm/min; ISO 527
	72 %	72 %	Type I, 5 mm/min; ASTM D638
Elongation at Yield	6.7 %	6.7 %	5 mm/min; ISO 527
	7.0 %	7.0 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	3.05 GPa	442 ksi	1 mm/min; ISO 527
	3.44 GPa	499 ksi	5 mm/min; ASTM D638

Mechanical Properties	Metric	English	Comments
	138 MPa	20000 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	2.75 GPa	399 ksi	2 mm/min; ISO 178
	2.92 GPa	424 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	1.15 J/cm	2.15 ft-lb/in	ASTM D256
Izod Impact, Notched (ISO)	13.0 kJ/m ²	6.19 ft-lb/in ²	80*10*4; ISO 180/1A

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	152 Â°C	306 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/ Af
	153 Â°C	307 Â°F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	
Vicat Softening Point	173 Â°C	343 Â°F	Rate B/120; ISO 306
Oxygen Index	49 %	49 %	ASTM D2863

Descriptive Properties	Value	Comments
FAA Flammability, FAR 25.853 A/B	<5	FAR 25.853
OSU total heat release (2 minute test)	16kW-min/m ²	FAR 25.853
OSU peak heat release rate (5 minute test)	36kW/m ²	FAR 25.853
Vertical Burn a (60s) passes at	2sec	FAR 25.853

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