

SABIC Innovative Plastics ULTEM 9076 PEI (Europe-Africa-Middle East)

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.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-ULTEM-9076-PEI-Europe-Africa-Middle-East.php

Physical Properties	Metric	English	Comments
Density	1.30 g/cc	0.0470 lb/in ³	ISO 1183
Moisture Absorption	0.700 %	0.700 %	23 ^o C / 50% RH; ISO 62
Water Absorption at Saturation	1.25 %	1.25 %	ISO 62
Linear Mold Shrinkage, Flow	0.0060 - 0.0080 cm/cm	0.0060 - 0.0080 in/in	on Tensile Bar; SABIC Method
Melt Index of Compound	22 g/10 min @Load 5.00 kg, Temperature 360 ^o C	22 g/10 min @Load 11.0 lb, Temperature 680 ^o F	MVR [cm ³ /10 min]; ISO 1133

Mechanical Properties	Metric	English	Comments
Hardness, H358/30	145 MPa	21000 psi	ISO 2039-1
Tensile Strength at Break	70.0 MPa	10200 psi	50 mm/min; ISO 527
Tensile Strength, Yield	95.0 MPa	13800 psi	50 mm/min; ISO 527
Elongation at Break	50 %	50 %	50 mm/min; ISO 527
Elongation at Yield	6.0 %	6.0 %	50 mm/min; ISO 527
Tensile Modulus	3.00 GPa	435 ksi	1 mm/min; ISO 527
Flexural Yield Strength	135 MPa	19600 psi	2 mm/min; ISO 178
Flexural Modulus	3.00 GPa	435 ksi	2 mm/min; ISO 178
Izod Impact, Notched (ISO)	6.00 kJ/m ²	2.86 ft-lb/in ²	80*10*4; ISO 180/1A
	6.00 kJ/m ² @Temperature -30.0 ^o C	2.86 ft-lb/in ² @Temperature -22.0 ^o F	80*10*4; ISO 180/1A
Charpy Impact, Notched	0.600 J/cm ²	2.86 ft-lb/in ²	Edgew 80*10*4 sp=62mm; ISO 179/1eA
	0.600 J/cm ² @Temperature -30.0	2.86 ft-lb/in ² @Temperature -22.0	Edgew 80*10*4 sp=62mm; ISO 179/1eA

Mechanical Properties	°C Metric	°F English	Comments
Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	55.0 Åµm/m-Å°C @Temperature 23.0 - 150 Å°C	30.6 Åµin/in-Å°F @Temperature 73.4 - 302 Å°F	ISO 11359-2
CTE, linear, Transverse to Flow	55.0 Åµm/m-Å°C @Temperature 23.0 - 150 Å°C	30.6 Åµin/in-Å°F @Temperature 73.4 - 302 Å°F	ISO 11359-2
Thermal Conductivity	0.260 W/m-K	1.80 BTU-in/hr-ftÅ²-Å°F	ISO 8302
Deflection Temperature at 0.46 MPa (66 psi)	195 Å°C	383 Å°F	Edgew 120*10*4 sp=100mm; ISO 75/Be
Deflection Temperature at 1.8 MPa (264 psi)	175 Å°C	347 Å°F	Edgew 120*10*4 sp=100mm; ISO 75/Ae
Vicat Softening Point	200 Å°C	392 Å°F	Rate B/50; ISO 306
	200 Å°C	392 Å°F	Rate B/120; ISO 306
	210 Å°C	410 Å°F	Rate A/50; ISO 306
Oxygen Index	50 %	50 %	ISO 4589
Glow Wire Test	960 Å°C @Thickness 3.20 mm	1760 Å°F @Thickness 0.126 in	IEC 60695-2-12

Electrical Properties	Metric	English	Comments
Volume Resistivity	>= 1.00e+15 ohm-cm	>= 1.00e+15 ohm-cm	IEC 60093
Surface Resistance	>= 1.00e+15 ohm	>= 1.00e+15 ohm	ROA; IEC 60093
Dielectric Constant	2.8 @Frequency 1.00e+6 Hz	2.8 @Frequency 1.00e+6 Hz	IEC 60250
	2.9 @Frequency 50.0 - 60.0 Hz	2.9 @Frequency 50.0 - 60.0 Hz	IEC 60250
Dielectric Strength	18.0 kV/mm @Thickness 3.20 mm	457 kV/in @Thickness 0.126 in	in oil; IEC 60243-1
Dissipation Factor	0.0050 @Frequency 1.00e+6 Hz	0.0050 @Frequency 1.00e+6 Hz	IEC 60250

Electrical Properties	Metric	English	Comments
Comparative Tracking Index	CTI	1000	IEC 60112

Descriptive Properties	Value	Comments
Ball Pressure Test, 125Â°C +/- 2Â°C	PASSES	IEC 60695-10-2

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