

SABIC Innovative Plastics ULTEM SF2360 PEI Blend (Asia Pacific)

Category : Polymer , Thermoplastic , Polyetherimide (PEI)

Material Notes:

High flow Ultem for thin wall application

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-ULTEM-SF2360-PEI-Blend-Asia-Pacific.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.53 g/cc	1.53 g/cc	ASTM D792
Density	1.53 g/cc	0.0553 lb/in ³	ISO 1183
Water Absorption	0.10 % @Time 86400 sec	0.10 % @Time 24.0 hour	ISO 62-1
Moisture Absorption	0.0400 %	0.0400 %	23 ^o C / 50% RH
Linear Mold Shrinkage, Flow	0.0039 cm/cm	0.0039 in/in	SABIC Method
Linear Mold Shrinkage, Transverse	0.0047 cm/cm	0.0047 in/in	SABIC Method
Melt Flow	18 g/10 min @Load 6.60 kg, Temperature 337 ^o C	18 g/10 min @Load 14.6 lb, Temperature 639 ^o F	ASTM D1238
Melt Index of Compound	40 g/10 min @Load 10.0 kg, Temperature 345 ^o C	40 g/10 min @Load 22.0 lb, Temperature 653 ^o F	MVR [cm ³ /10 min]; ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	148 MPa	21500 psi	Type I, 5 mm/min; ASTM D638
	152 MPa	22000 psi	5 mm/min; ISO 527
Elongation at Break	2.0 %	2.0 %	Type I, 5 mm/min; ASTM D638
	2.0 %	2.0 %	5 mm/min; ISO 527
Tensile Modulus	11.95 GPa	1733 ksi	5 mm/min; ASTM D638
Flexural Yield Strength	212 MPa	30700 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	9.94 GPa	1440 ksi	1.3 mm/min, 50 mm span; ASTM D790
	9.94 GPa	1440 ksi	2 mm/min; ISO 178

Izod Impact Notched Mechanical Properties	0.890 J/cm Metric	1.67 ft-lb/in English	ASTM D256 Comments
Izod Impact, Notched (ISO)	9.00 kJ/m ²	4.28 ft-lb/in ²	80*10*4; ISO 180/1A

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	13.0 Åµm/m-Å°C	7.22 Åµin/in-Å°F	ISO 11359-2
	@Temperature 23.0 - 150 Å°C	@Temperature 73.4 - 302 Å°F	
	15.0 Åµm/m-Å°C	8.33 Åµin/in-Å°F	ASTM E 831
	@Temperature -40.0 - 150 Å°C	@Temperature -40.0 - 302 Å°F	
CTE, linear, Transverse to Flow	54.0 Åµm/m-Å°C	30.0 Åµin/in-Å°F	ASTM E 831
	@Temperature -40.0 - 150 Å°C	@Temperature -40.0 - 302 Å°F	
	62.0 Åµm/m-Å°C	34.4 Åµin/in-Å°F	ISO 11359-2
	@Temperature 23.0 - 150 Å°C	@Temperature 73.4 - 302 Å°F	
Deflection Temperature at 1.8 MPa (264 psi)	208 Å°C	406 Å°F	Edgew 120*10*4 sp=100mm; ISO 75/Ae
	203 Å°C	397 Å°F	
	@Thickness 3.20 mm	@Thickness 0.126 in	unannealed; ASTM D648
Flammability, UL94	V-0	V-0	UL 94 by SABIC-IP
	@Thickness 1.50 mm	@Thickness 0.0591 in	

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