

SABIC Innovative Plastics ULTEM SF2260 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-SF2260-PEI-Blend-Asia-Pacific.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.42 g/cc	1.42 g/cc	ASTM D792
Density	1.42 g/cc	0.0513 lb/in ³	ISO 1183
Water Absorption	0.14 % @Time 86400 sec	0.14 % @Time 24.0 hour	ISO 62-1
Moisture Absorption	0.0500 %	0.0500 %	23 ^o C / 50% RH
Linear Mold Shrinkage, Flow	0.0046 cm/cm	0.0046 in/in	SABIC Method
Linear Mold Shrinkage, Transverse	0.0054 cm/cm	0.0054 in/in	SABIC Method
Melt Flow	30 g/10 min @Load 6.60 kg, Temperature 337 ^o C	30 g/10 min @Load 14.6 lb, Temperature 639 ^o F	ASTM D1238
Melt Index of Compound	70 g/10 min @Load 10.0 kg, Temperature 345 ^o C	70 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	142 MPa	20600 psi	5 mm/min; ISO 527
	148 MPa	21500 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	2.4 %	2.4 %	Type I, 5 mm/min; ASTM D638
	2.4 %	2.4 %	5 mm/min; ISO 527
Tensile Modulus	9.40 GPa	1360 ksi	5 mm/min; ASTM D638
Flexural Yield Strength	191 MPa	27700 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	7.17 GPa	1040 ksi	2 mm/min; ISO 178
	7.36 GPa	1070 ksi	1.3 mm/min, 50 mm span; ASTM D790

Izod Impact Notched Mechanical Properties	0.800 J/cm Metric	1.50 ft-lb/in English	ASTM D256 Comments
Izod Impact, Notched (ISO)	8.00 kJ/m ²	3.81 ft-lb/in ²	80*10*4; ISO 180/1A

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	14.0 Åµm/m-Å°C	7.78 Åµin/in-Å°F	ASTM E 831
	@Temperature -40.0 - 150 Å°C	@Temperature -40.0 - 302 Å°F	
	18.0 Åµm/m-Å°C	10.0 Åµin/in-Å°F	ISO 11359-2
	@Temperature 23.0 - 150 Å°C	@Temperature 73.4 - 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	
	67.0 Åµm/m-Å°C	37.2 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)	201 Å°C	394 Å°F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	
Flammability, UL94	V-0	V-0	UL 94 by SABIC-IP
	@Thickness 1.50 mm	@Thickness 0.0591 in	

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