

SABIC Innovative Plastics Ultem SF2250 PEI Blend (Europe-Africa-Middle East)

Category : Polymer , Thermoplastic , Polyetherimide (PEI)

Material Notes:

High flow Ultem for thin wall application This data was supplied by SABIC-IP for the Europe-Africa-Middle East region.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-Ultem-SF2250-PEI-Blend-Europe-Africa-Middle-East.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.44 g/cc	1.44 g/cc	ASTM D 792
Density	1.44 g/cc	0.0520 lb/in ³	ISO 1183
Water Absorption	0.20 %	0.20 %	ISO 62-1
	@Temperature 23.0 °C, Time 86400 sec	@Temperature 73.4 °F, Time 24.0 hour	
Moisture Absorption at Equilibrium	0.070 %	0.070 %	23°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	19.7 g/10 min	19.7 g/10 min	ASTM D 1238
	@Load 6.60 kg, Temperature 337 °C	@Load 14.6 lb, Temperature 639 °F	
	40 g/10 min	40 g/10 min	[cm ³ /10 min] Melt Volume Rate; ISO 1133
	@Load 10.0 kg, Temperature 345 °C	@Load 22.0 lb, Temperature 653 °F	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	157 MPa	22800 psi	5 mm/min; ISO 527
	162 MPa	23500 psi	Type I, 5 mm/min; ASTM D 638
Elongation at Break	3.0 %	3.0 %	Type I, 5 mm/min; ASTM D 638
	3.0 %	3.0 %	5 mm/min; ISO 527
Tensile Modulus	8.90 GPa	1290 ksi	5 mm/min; ASTM D 638
Flexural Yield Strength	197 MPa	28600 psi	1.3 mm/min, 50 mm span; ASTM D 790
Flexural Modulus	7.15 GPa	1040 ksi	2 mm/min; ISO 178
	7.26 GPa	1050 ksi	1.3 mm/min, 50 mm span; ASTM D 790

Mechanical Properties	Metric kJ/cm	English ft-lb/in	Comments
Izod Impact, Notched	@Temperature 23.0 °C	@Temperature 73.4 °F	ASTM D 256
Izod Impact, Notched (ISO)	9.00 kJ/m ² @Temperature 23.0 °C	4.28 ft-lb/in ² @Temperature 73.4 °F	80*10*4; ISO 180/1A

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	14.0 Åµm/m-Å°C @Temperature -40.0 - 150 Å°C	7.78 Åµin/in-Å°F @Temperature -40.0 - 302 Å°F	ASTM E 831
	18.0 Åµm/m-Å°C @Temperature 23.0 - 150 Å°C	10.0 Åµin/in-Å°F @Temperature 73.4 - 302 Å°F	ISO 11359-2
CTE, linear, Transverse to Flow	54.0 Åµm/m-Å°C @Temperature -40.0 - 150 Å°C	30.0 Åµin/in-Å°F @Temperature -40.0 - 302 Å°F	ASTM E 831
	59.0 Åµm/m-Å°C @Temperature 23.0 - 150 Å°C	32.8 Åµin/in-Å°F @Temperature 73.4 - 302 Å°F	ISO 11359-2
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 @Thickness 3.20 mm	397 Å°F @Thickness 0.126 in	unannealed; ASTM D 648
Flammability, UL94	V-0 @Thickness 1.50 mm	V-0 @Thickness 0.0591 in	UL 94 by SABIC-IP

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