

SABIC Innovative Plastics Ultem SF2350 PEI Blend (Europe-Africa-Middle East)

Category : Polymer , Thermoplastic , Polyetherimide (PEI)

Material Notes:

High flow Ultem blends 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-SF2350-PEI-Blend-Europe-Africa-Middle-East.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.52 g/cc	1.52 g/cc	ASTM D 792
Density	1.52 g/cc	0.0549 lb/in ³	ISO 1183
Melt Flow	14.7 g/10 min	14.7 g/10 min	ASTM D 1238
	@Load 6.60 kg, Temperature 337 Â°C	@Load 14.6 lb, Temperature 639 Â°F	
	30 g/10 min	30 g/10 min	[cm ³ /10 min] Melt Volume Rate; ISO 1133
	@Load 10.0 kg, Temperature 345 Â°C	@Load 22.0 lb, Temperature 653 Â°F	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	171 MPa	24800 psi	5 mm/min; ISO 527
	172 MPa	24900 psi	Type I, 5 mm/min; ASTM D 638
Elongation at Break	2.5 %	2.5 %	5 mm/min; ISO 527
	2.6 %	2.6 %	Type I, 5 mm/min; ASTM D 638
Tensile Modulus	11.6 GPa	1680 ksi	5 mm/min; ASTM D 638
Flexural Yield Strength	222 MPa	32200 psi	1.3 mm/min, 50 mm span; ASTM D 790
Flexural Modulus	9.32 GPa	1350 ksi	1.3 mm/min, 50 mm span; ASTM D 790
	9.40 GPa	1360 ksi	
Izod Impact, Notched	0.950 J/cm	1.78 ft-lb/in	ASTM D 256
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	
Izod Impact, Notched (ISO)	10.0 kJ/m ²	4.76 ft-lb/in ²	80*10*4; ISO 180/1A
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	14.0 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	7.78 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ISO 11359-2
	@Temperature 23.0 - 150 $\text{Å}^\circ\text{C}$	@Temperature 73.4 - 302 $\text{Å}^\circ\text{F}$	
	15.0 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	8.33 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ASTME 831
	@Temperature -40.0 - 150 $\text{Å}^\circ\text{C}$	@Temperature -40.0 - 302 $\text{Å}^\circ\text{F}$	
CTE, linear, Transverse to Flow	55.0 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	30.6 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ASTME 831
	@Temperature -40.0 - 150 $\text{Å}^\circ\text{C}$	@Temperature -40.0 - 302 $\text{Å}^\circ\text{F}$	
	56.0 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	31.1 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ISO 11359-2
	@Temperature 23.0 - 150 $\text{Å}^\circ\text{C}$	@Temperature 73.4 - 302 $\text{Å}^\circ\text{F}$	
Deflection Temperature at 1.8 MPa (264 psi)	209 $\text{Å}^\circ\text{C}$	408 $\text{Å}^\circ\text{F}$	Edgew 120*10*4 sp=100mm; ISO 75/Ae
	204 $\text{Å}^\circ\text{C}$	399 $\text{Å}^\circ\text{F}$	
	@Thickness 3.20 mm	@Thickness 0.126 in	unannealed; ASTM D 648
Flammability, UL94	V-0	V-0	UL 94 by SABIC-IP
	@Thickness 1.50 mm	@Thickness 0.0591 in	

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