

## SABIC Innovative Plastics ULTEM SF2350 PEI Blend (Asia Pacific)

Category : Polymer , Thermoplastic , Polyetherimide (PEI)

### Material Notes:

High flow Ultem blends for thin wall application

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_SABIC-Innovative-Plastics-ULTEM-SF2350-PEI-Blend-Asia-Pacific.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-ULTEM-SF2350-PEI-Blend-Asia-Pacific.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.52 g/cc	1.52 g/cc	ASTM D792
Density	1.52 g/cc	0.0549 lb/in <sup>3</sup>	ISO 1183
Water Absorption	0.10 % @Time 86400 sec	0.10 % @Time 24.0 hour	ISO 62-1
Moisture Absorption	0.0600 %	0.0600 %	23 <sup>o</sup> C / 50% RH
Melt Flow	14.7 g/10 min @Load 6.60 kg, Temperature 337 <sup>o</sup> C	14.7 g/10 min @Load 14.6 lb, Temperature 639 <sup>o</sup> F	ASTM D1238
Melt Index of Compound	30 g/10 min @Load 10.0 kg, Temperature 345 <sup>o</sup> C	30 g/10 min @Load 22.0 lb, Temperature 653 <sup>o</sup> F	MVR [cm <sup>3</sup> /10 min]; ISO 1133

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 D638
Elongation at Break	2.5 %	2.5 %	5 mm/min; ISO 527
	2.6 %	2.6 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	11.6 GPa	1680 ksi	5 mm/min; ASTM D638
Flexural Yield Strength	222 MPa	32200 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	9.32 GPa	1350 ksi	1.3 mm/min, 50 mm span; ASTM D790
	9.40 GPa	1360 ksi	2 mm/min; ISO 178
Izod Impact, Notched	0.950 J/cm	1.78 ft-lb/in	ASTM D256
Izod Impact, Notched (ISO)	10.0 kJ/m <sup>2</sup>	4.76 ft-lb/in <sup>2</sup>	80*10*4; ISO 180/1A

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 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ASTM E 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 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ASTM E 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 $\text{Å}^\circ\text{F}$	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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