

## SABIC Innovative Plastics ULTEM SF2250 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-SF2250-PEI-Blend-Asia-Pacific.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-ULTEM-SF2250-PEI-Blend-Asia-Pacific.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.44 g/cc	1.44 g/cc	ASTM D792
Density	1.44 g/cc	0.0520 lb/in <sup>3</sup>	ISO 1183
Water Absorption	0.20 % @Time 86400 sec	0.20 % @Time 24.0 hour	ISO 62-1
Moisture Absorption	0.0700 %	0.0700 %	23 <sup>o</sup> 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 @Load 6.60 kg, Temperature 337 <sup>o</sup> C	19.7 g/10 min @Load 14.6 lb, Temperature 639 <sup>o</sup> F	ASTM D1238
Melt Index of Compound	40 g/10 min @Load 10.0 kg, Temperature 345 <sup>o</sup> C	40 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	157 MPa	22800 psi	5 mm/min; ISO 527
	162 MPa	23500 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	3.0 %	3.0 %	Type I, 5 mm/min; ASTM D638
	3.0 %	3.0 %	5 mm/min; ISO 527
Tensile Modulus	8.90 GPa	1290 ksi	5 mm/min; ASTM D638
Flexural Yield Strength	197 MPa	28600 psi	1.3 mm/min, 50 mm span; ASTM D790
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 D790

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 <sup>2</sup>	4.28 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 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ASTM E 831
	@Temperature -40.0 - 150 $\text{Å}^\circ\text{C}$	@Temperature -40.0 - 302 $\text{Å}^\circ\text{F}$	
	18.0 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	10.0 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ISO 11359-2
	@Temperature 23.0 - 150 $\text{Å}^\circ\text{C}$	@Temperature 73.4 - 302 $\text{Å}^\circ\text{F}$	
CTE, linear, Transverse to Flow	54.0 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	30.0 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ASTM E 831
	@Temperature -40.0 - 150 $\text{Å}^\circ\text{C}$	@Temperature -40.0 - 302 $\text{Å}^\circ\text{F}$	
	59.0 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	32.8 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	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)	208 $\text{Å}^\circ\text{C}$	406 $\text{Å}^\circ\text{F}$	Edgew 120*10*4 sp=100mm; ISO 75/Ae
	203 $\text{Å}^\circ\text{C}$	397 $\text{Å}^\circ\text{F}$	
	@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	

## Contact Songhan Plastic Technology Co.,Ltd.

Website : [www.lookpolymers.com](http://www.lookpolymers.com)

Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China