

SABIC Innovative Plastics ULTEM HU2110 PEI

Category : Polymer , Thermoplastic , Polyetherimide (PEI)

Material Notes:

10% Glass fiber filled, enhanced flow Polyetherimide (Tg 217C). ECO Conforming. For medical devices and pharmaceutical applications.

Healthcare management of change, biocompatible (ISO 10993 or USP Class VI), food contact compliant.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-ULTEM-HU2110-PEI.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.34 g/cc	1.34 g/cc	ASTM D792
Density	1.42 g/cc	0.0513 lb/in ³	ISO 1183
Moisture Absorption	0.500 %	0.500 %	23 ^o C / 50% RH; ISO 62
Water Absorption at Saturation	0.90 %	0.90 %	ISO 62
Linear Mold Shrinkage, Flow	0.0020 - 0.0040 cm/cm @Thickness 3.20 mm	0.0020 - 0.0040 in/in @Thickness 0.126 in	SABIC Method
Melt Flow	11.3 g/10 min @Load 6.60 kg, Temperature 337 ^o C	11.3 g/10 min @Load 14.6 lb, Temperature 639 ^o F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	115 MPa	16700 psi	Type I, 5 mm/min; ASTM D638
	165 MPa	23900 psi	5 mm/min; ISO 527
Tensile Strength, Yield	114 MPa	16500 psi	Type I, 5 mm/min; ASTM D638
	165 MPa	23900 psi	5 mm/min; ISO 527
Elongation at Break	2.0 %	2.0 %	5 mm/min; ISO 527
	3.0 %	3.0 %	Type I, 5 mm/min; ASTM D638
Elongation at Yield	2.0 %	2.0 %	5 mm/min; ISO 527
	3.0 %	3.0 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	4.61 GPa	669 ksi	5 mm/min; ASTM D638
	9.50 GPa	1380 ksi	1 mm/min; ISO 527
Flexural Yield Strength	225 MPa	32600 psi	1.3 mm/min, 50 mm span; ASTM D790

Mechanical Properties	228 MPa Metric	33100 psi English	2 mm/min; ISO 178 Comments
Flexural Modulus	6.85 GPa	994 ksi	1.3 mm/min, 50 mm span; ASTM D790
	6.89 GPa	999 ksi	2 mm/min; ISO 178
Izod Impact, Notched	0.480 J/cm	0.899 ft-lb/in	ASTM D256
	0.640 J/cm @Temperature -30.0 °C	1.20 ft-lb/in @Temperature -22.0 °F	ASTM D256
Izod Impact, Notched (ISO)	64.0 kJ/m ²	30.5 ft-lb/in ²	80*10*4; ISO 180/1A
	70.0 kJ/m ² @Temperature -30.0 °C	33.3 ft-lb/in ² @Temperature -22.0 °F	80*10*4; ISO 180/1A
Charpy Impact, Notched	6.50 J/cm ²	30.9 ft-lb/in ²	Edgew 80*10*4 sp=62mm; ISO 179/1eA
Dart Drop, Total Energy	8.00 J	5.90 ft-lb	ASTM D3763
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	25.0 Åµm/m-Å°C	13.9 Åµin/in-Å°F	ASTM E 831
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
	25.0 Åµm/m-Å°C	13.9 Åµin/in-Å°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
CTE, linear, Transverse to Flow	50.0 Åµm/m-Å°C	27.8 Åµin/in-Å°F	ASTM E 831
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
Deflection Temperature at 1.8 MPa (264 psi)	205 Å°C	401 Å°F	Flatw 80*10*4 sp=64mm; ISO 75/Åf
	207 Å°C @Thickness 6.40 mm	405 Å°F @Thickness 0.252 in	unannealed; ASTM D648
Vicat Softening Point	213 Å°C	415 Å°F	Rate B/120; ISO 306
			Rate B/50; ASTM D1525

Thermal Properties	220 Â°C Metric	428 Â°F English	Comments
	220 Â°C	428 Â°F	Rate B/50; ISO 306
Glass Transition Temp, Tg	217 Â°C	423 Â°F	

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

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