

SABIC Innovative Plastics ULTEM HU1110 PEI (Asia Pacific)

Category : Polymer , Thermoplastic , Polyetherimide (PEI)

Material Notes:

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. EtO and steam sterilizable. NSF 51 listing, compliant in recognized colors.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-ULTEM-HU1110-PEI-Asia-Pacific.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.36 g/cc	1.36 g/cc	ASTM D792
Density	1.27 g/cc	0.0459 lb/in ³	ISO 1183
Moisture Absorption	0.650 %	0.650 %	23Â°C / 50% RH; ISO 62
Water Absorption at Saturation	1.2 %	1.2 %	ISO 62
Linear Mold Shrinkage, Flow	0.0050 - 0.0070 cm/cm @Thickness 3.20 mm	0.0050 - 0.0070 in/in @Thickness 0.126 in	SABIC Method
Melt Flow	16 g/10 min @Load 6.60 kg, Temperature 337 Â°C	16 g/10 min @Load 14.6 lb, Temperature 639 Â°F	ASTM D1238
Melt Index of Compound	21 g/10 min @Load 5.00 kg, Temperature 360 Â°C	21 g/10 min @Load 11.0 lb, Temperature 680 Â°F	MVR [cm ³ /10 min]; ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	80.0 MPa	11600 psi	5 mm/min; ISO 527
	85.0 MPa	12300 psi	Type I, 5 mm/min; ASTM D638
Tensile Strength, Yield	110 MPa	16000 psi	Type I, 5 mm/min; ASTM D638
	110 MPa	16000 psi	5 mm/min; ISO 527
Elongation at Break	60 %	60 %	5 mm/min; ISO 527
	70 %	70 %	Type I, 5 mm/min; ASTM D638
Elongation at Yield	6.0 %	6.0 %	5 mm/min; ISO 527
	7.0 %	7.0 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	3.50 GPa	508 ksi	1 mm/min; ISO 527

Mechanical Properties	Metric 3.72 GPa	English 540 ksi	Comments 5 mm/min; ASTM D638
Flexural Yield Strength	140 MPa	20300 psi	2 mm/min; ISO 178
	165 MPa	23900 psi	2.6 mm/min, 100 mm span; ASTM D790
	174 MPa	25200 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	3.30 GPa	479 ksi	2 mm/min; ISO 178
	3.42 GPa	496 ksi	1.3 mm/min, 50 mm span; ASTM D790
	3.72 GPa	540 ksi	2.6 mm/min, 100 mm span; ASTM D790
Izod Impact, Notched	0.560 J/cm	1.05 ft-lb/in	ASTM D256
Izod Impact, Notched (ISO)	4.00 kJ/m ²	1.90 ft-lb/in ²	80*10*4; ISO 180/1A
	4.00 kJ/m ² @Temperature -30.0 Â°C	1.90 ft-lb/in ² @Temperature -22.0 Â°F	80*10*4; ISO 180/1A
Charpy Impact, Notched	0.500 J/cm ²	2.38 ft-lb/in ²	Edgew 80*10*4 sp=62mm; ISO 179/1eA
Gardner Impact	23.0 J	17.0 ft-lb	ASTM D3029
Dart Drop, Total Energy	28.0 J @Temperature 23.0 Â°C	20.7 ft-lb @Temperature 73.4 Â°F	ASTM D3763

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	55.0 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	30.6 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ASTM E 831
	55.0 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	30.6 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ISO 11359-2
CTE, linear, Transverse to Flow	55.0 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	30.6 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ASTM E 831
	55.0 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	30.6 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ISO 11359-2

Deflection Temperature at 1.8 MPa (150 psi) Thermal Properties	210 Â°C Metric	410 Â°F English	Flatw 80*10*4 sp=64mm; ISO 75/Af Comments
	198 Â°C @Thickness 6.40 mm	388 Â°F @Thickness 0.252 in	unannealed; ASTM D648
Vicat Softening Point	200 Â°C	392 Â°F	Rate B/50; ISO 306
	205 Â°C	401 Â°F	Rate B/120; ISO 306
	219 Â°C	426 Â°F	Rate B/50; ASTM D1525
Glass Transition Temp, Tg	217 Â°C	423 Â°F	
Flammability, UL94	V-2 @Thickness 0.710 mm	V-2 @Thickness 0.0280 in	UL 94
	V-0 @Thickness 0.710 mm	V-0 @Thickness 0.0280 in	UL 94
	5VA @Thickness 3.00 mm	5VA @Thickness 0.118 in	UL 94

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