

SABIC Innovative Plastics ULTEM HU2300 PEI

Category : Polymer , Thermoplastic , Polyetherimide (PEI)

Material Notes:

30% Glass fiber filled, standard 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-HU2300-PEI.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.51 g/cc	1.51 g/cc	ASTM D792
Density	1.51 g/cc	0.0546 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	5.0 g/10 min @Load 6.60 kg, Temperature 337 ^o C	5.0 g/10 min @Load 14.6 lb, Temperature 639 ^o F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	158 MPa	22900 psi	Type I, 5 mm/min; ASTM D638
	165 MPa	23900 psi	5 mm/min; ISO 527
Tensile Strength, Yield	165 MPa	23900 psi	5 mm/min; ISO 527
	168 MPa	24400 psi	Type I, 5 mm/min; ASTM D638
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	9.30 GPa	1350 ksi	5 mm/min; ASTM D638
	9.50 GPa	1380 ksi	1 mm/min; ISO 527
Flexural Yield Strength	220 MPa	31900 psi	1.3 mm/min, 50 mm span; ASTM D790

Mechanical Properties	225 MPa Metric	32600 psi English	2 mm/min; ISO 178 Comments
Flexural Modulus	8.50 GPa	1230 ksi	2 mm/min; ISO 178
	9.25 GPa	1340 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	0.850 J/cm	1.59 ft-lb/in	ASTM D256
	0.900 J/cm	1.69 ft-lb/in	ASTM D256
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Izod Impact, Unnotched	4.27 J/cm	8.00 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	10.0 kJ/m ²	4.76 ft-lb/in ²	80*10*4; ISO 180/1A
	10.0 kJ/m ²	4.76 ft-lb/in ²	80*10*4; ISO 180/1A
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Charpy Impact, Notched	1.00 J/cm ²	4.76 ft-lb/in ²	Edgew 80*10*4 sp=62mm; ISO 179/1eA
Dart Drop, Total Energy	10.0 J	7.38 ft-lb	ASTM D3763
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	16.0 Åµm/m-Å°C	8.89 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	19.8 Åµm/m-Å°C	11.0 Åµin/in-Å°F	ASTM E 831
	@Temperature -20.0 - 150 Å°C	@Temperature -4.00 - 302 Å°F	
CTE, linear, Transverse to Flow	16.0 Åµm/m-Å°C	8.89 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)	41.0 Åµm/m-Å°C	22.8 Åµin/in-Å°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
Deflection Temperature at 1.8 MPa (264 psi)	210 Å°C	410 Å°F	Flatw 80*10*4 sp=64mm; ISO 75/Åf
	210 Å°C	410 Å°F	unannealed; ASTM D648
	@Thickness 6.40 mm	@Thickness 0.252 in	
Vicat Softening Point			Rate B/50; ISO 306

Thermal Properties	213 Â°C Metric	415 Â°F English	Comments
	220 Â°C	428 Â°F	Rate B/120; ISO 306
	227 Â°C	441 Â°F	Rate B/50; ASTM D1525
Glass Transition Temp, Tg	217 Â°C	423 Â°F	

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