

SABIC Innovative Plastics ULTEM HU2200 PEI

Category : Polymer , Thermoplastic , Polyetherimide (PEI)

Material Notes:

20% 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-HU2200-PEI.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.42 g/cc	1.42 g/cc	ASTM D792
Density	1.42 g/cc	0.0513 lb/in ³	ISO 1183
Moisture Absorption	0.550 %	0.550 %	23Â°C / 50% RH; ISO 62
Water Absorption at Saturation	1.0 %	1.0 %	ISO 62
Linear Mold Shrinkage, Flow	0.0030 - 0.0050 cm/cm @Thickness 3.20 mm	0.0030 - 0.0050 in/in @Thickness 0.126 in	SABIC Method
Melt Flow	6.0 g/10 min @Load 6.60 kg, Temperature 337 Â°C	6.0 g/10 min @Load 14.6 lb, Temperature 639 Â°F	ASTM D1238
Melt Index of Compound	7.0 g/10 min @Load 5.00 kg, Temperature 360 Â°C	7.0 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	131 MPa	19000 psi	Type I, 5 mm/min; ASTM D638
	131 MPa	19000 psi	5 mm/min; ISO 527
Tensile Strength, Yield	131 MPa	19000 psi	Type I, 5 mm/min; ASTM D638
	131 MPa	19000 psi	5 mm/min; ISO 527
Elongation at Break	4.0 %	4.0 %	Type I, 5 mm/min; ASTM D638
	4.0 %	4.0 %	5 mm/min; ISO 527
Elongation at Yield	4.0 %	4.0 %	Type I, 5 mm/min; ASTM D638
	4.0 %	4.0 %	5 mm/min; ISO 527
Tensile Modulus	6.89 GPa	999 ksi	5 mm/min; ASTM D638

Mechanical Properties	6.89 GPa Metric	999 ksi English	1 mm/min; ISO 527 Comments
Flexural Yield Strength	225 MPa	32600 psi	1.3 mm/min, 50 mm span; ASTM D790
	228 MPa	33100 psi	2 mm/min; ISO 178
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	0.640 J/cm	1.20 ft-lb/in	ASTM D256
	0.700 J/cm	1.31 ft-lb/in	
	@Temperature -30.0 Â°C	@Temperature -22.0 Â°F	ASTM D256
Izod Impact, Unnotched	4.80 J/cm	8.99 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	64.0 kJ/mÂ²	30.5 ft-lb/inÂ²	80*10*4; ISO 180/1A
	70.0 kJ/mÂ²	33.3 ft-lb/inÂ²	
	@Temperature -30.0 Â°C	@Temperature -22.0 Â°F	80*10*4; ISO 180/1A
Charpy Impact, Notched	6.50 J/cmÂ²	30.9 ft-lb/inÂ²	Edgew 80*10*4 sp=62mm; ISO 179/1eA
Dart Drop, Total Energy	8.00 J	5.90 ft-lb	
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	ASTM D3763

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	25.0 Âµm/m-Â°C	13.9 Âµin/in-Â°F	
	@Temperature -20.0 - 150 Â°C	@Temperature -4.00 - 302 Â°F	ASTM E 831
	25.0 Âµm/m-Â°C	13.9 Âµin/in-Â°F	
	@Temperature 23.0 - 150 Â°C	@Temperature 73.4 - 302 Â°F	ISO 11359-2
CTE, linear, Transverse to Flow	50.0 Âµm/m-Â°C	27.8 Âµin/in-Â°F	
	@Temperature -40.0 - 150 Â°C	@Temperature -40.0 - 302 Â°F	ASTM E 831
	50.0 Âµm/m-Â°C	27.8 Âµin/in-Â°F	
	@Temperature 23.0 - 150 Â°C	@Temperature 73.4 - 302 Â°F	ISO 11359-2
Deflection Temperature at 1.8 MPa (264 psi)	205 Â°C	401 Â°F	Edgew 120*10*4 sp=100mm; ISO 75/Ae

Thermal Properties	⁷⁰⁸ Â°C Metric	⁴⁹⁶ Â°F English	Comments unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	
Vicat Softening Point	212 Â°C	414 Â°F	Rate B/50; ISO 306
	218 Â°C	424 Â°F	Rate B/120; ISO 306
	220 Â°C	428 Â°F	Rate B/50; ASTM D1525
Glass Transition Temp, Tg	217 Â°C	423 Â°F	

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