

SABIC Innovative Plastics Ultem HATX200 PEI+PCE

Category : Polymer , Thermoplastic , Polyetherimide (PEI) , Polyetherimide (PEI) + PCE

Material Notes:

High flow Polyetherimide blend. ECO Conforming. For medical devices and pharmaceutical applications. Healthcare management of change, biocompatible (ISO 10993 or USP Class VI), food contact compliant. This data was supplied by SABIC-IP for the Americas region.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-Ultem-HATX200-PEIPCE.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.26 g/cc	1.26 g/cc	ASTM D 792
Density	1.27 g/cc	0.0459 lb/in ³	ISO 1183
Moisture Absorption at Equilibrium	0.50 %	0.50 %	23 ^o C / 50% RH; ISO 62
Water Absorption at Saturation	0.90 % @Temperature 23.0 ^o C	0.90 % @Temperature 73.4 ^o F	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 5.00 kg, Temperature 220 ^o C	16 g/10 min @Load 11.0 lb, Temperature 428 ^o F	[cm ³ /10 min] Melt Volume Rate; ISO 1133
	24 g/10 min @Load 6.60 kg, Temperature 337 ^o C	24 g/10 min @Load 14.6 lb, Temperature 639 ^o F	ASTM D 1238

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	75.0 MPa	10900 psi	Type I, 5 mm/min; ASTM D 638
	75.0 MPa	10900 psi	5 mm/min; ISO 527
Tensile Strength, Yield	95.0 MPa	13800 psi	5 mm/min; ISO 527
	96.0 MPa	13900 psi	Type I, 5 mm/min; ASTM D 638
Elongation at Break	20 %	20 %	5 mm/min; ISO 527
	70 %	70 %	Type I, 5 mm/min; ASTM D 638
Elongation at Yield	6.5 %	6.5 %	5 mm/min; ISO 527
	30 %	30 %	Type I, 5 mm/min; ASTM D 638

Tensile Modulus Mechanical Properties	3.00 GPa Metric	435 ksi English	5 mm/min; ASTM D 638 Comments
	3.00 GPa	435 ksi	1 mm/min; ISO 527
Flexural Yield Strength	125 MPa	18100 psi	2 mm/min; ISO 178
	144 MPa	20900 psi	1.3 mm/min, 50 mm span; ASTM D 790
Flexural Modulus	3.10 GPa	450 ksi	2 mm/min; ISO 178
	3.17 GPa	460 ksi	1.3 mm/min, 50 mm span; ASTM D 790
Izod Impact, Notched	0.530 J/cm @Temperature 23.0 Â°C	0.993 ft-lb/in @Temperature 73.4 Â°F	ASTM D 256
Izod Impact, Unnotched	20.82 J/cm @Temperature 23.0 Â°C	39.00 ft-lb/in @Temperature 73.4 Â°F	ASTM D 4812
Izod Impact, Notched (ISO)	5.00 kJ/mÂ² @Temperature 23.0 Â°C	2.38 ft-lb/inÂ² @Temperature 73.4 Â°F	80*10*4; ISO 180/1A
	5.00 kJ/mÂ² @Temperature -30.0 Â°C	2.38 ft-lb/inÂ² @Temperature -22.0 Â°F	80*10*4; ISO 180/1A
Charpy Impact, Notched	0.400 J/cmÂ² @Temperature 23.0 Â°C	1.90 ft-lb/inÂ² @Temperature 73.4 Â°F	V-notch Edgew 80*10*4 sp=62mm; ISO 179/1eA
Impact Test	28.0 J @Temperature 23.0 Â°C	20.7 ft-lb @Temperature 73.4 Â°F	Instrumented Impact Total Energy; ASTM D 3763

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	60.0 Âµm/m-Â°C	33.3 Âµin/in-Â°F	ASTM E 831
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
	60.0 Âµm/m-Â°C	33.3 Âµin/in-Â°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
CTE, linear, Transverse to Flow	60.0 Âµm/m-Â°C	33.3 Âµin/in-Â°F	ASTM E 831
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	

Thermal Properties	60.0 Åum/m-Å°C Metric	33.3 Åuin/in-Å°F English	Comments ISO 11359-2
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
Deflection Temperature at 1.8 MPa (264 psi)	180 Å°C	356 Å°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	190 Å°C	374 Å°F	unannealed; ASTM D 648
	@Thickness 6.40 mm	@Thickness 0.252 in	
Vicat Softening Point	205 Å°C	401 Å°F	Rate B/120; ISO 306
	210 Å°C	410 Å°F	Rate B/50; ASTM D 1525
	210 Å°C	410 Å°F	Rate B/50; ISO 306
Flammability, UL94	V-2	V-2	UL 94
	@Thickness 0.760 mm	@Thickness 0.0299 in	

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