

SABIC Innovative Plastics Ultem HATX100 PEI+PCE (Europe-Africa-Middle East)

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

Material Notes:

Higher impact, 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 Europe-Africa-Middle East region.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-Ultem-HATX100-PEIPCE-Europe-Africa-Middle-East.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.21 g/cc	1.21 g/cc	ASTM D 792
Density	1.21 g/cc	0.0437 lb/in ³	ISO 1183
Moisture Absorption at Equilibrium	0.25 %	0.25 %	23 ^o C / 50% RH; ISO 62
Water Absorption at Saturation	0.50 % @Temperature 23.0 ^o C	0.50 % @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	6.0 g/10 min @Load 6.60 kg, Temperature 295 ^o C	6.0 g/10 min @Load 14.6 lb, Temperature 563 ^o F	ASTM D 1238
	35 g/10 min @Load 5.00 kg, Temperature 220 ^o C	35 g/10 min @Load 11.0 lb, Temperature 428 ^o F	[cm ³ /10 min] Melt Volume Rate; ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	55.0 MPa	7980 psi	5 mm/min; ISO 527
	58.0 MPa	8410 psi	Type I, 5 mm/min; ASTM D 638
Tensile Strength, Yield	65.0 MPa	9430 psi	5 mm/min; ISO 527
	68.0 MPa	9860 psi	Type I, 5 mm/min; ASTM D 638
Elongation at Break	30 %	30 %	5 mm/min; ISO 527
	80 %	80 %	Type I, 5 mm/min; ASTM D 638
Elongation at Yield	7.0 %	7.0 %	5 mm/min; ISO 527

Mechanical Properties	Metric	English	Comments
			Type I, 5 mm/min; ASTM D 638
Tensile Modulus	2.00 GPa	290 ksi	5 mm/min; ASTM D 638
	2.35 GPa	341 ksi	1 mm/min; ISO 527
Flexural Yield Strength	90.0 MPa	13100 psi	2 mm/min; ISO 178
	106 MPa	15400 psi	1.3 mm/min, 50 mm span; ASTM D 790
Flexural Modulus	2.00 GPa	290 ksi	1.3 mm/min, 50 mm span; ASTM D 790
	2.40 GPa	348 ksi	2 mm/min; ISO 178
Izod Impact, Notched	4.27 J/cm @Temperature 23.0 Â°C	8.00 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)	13.0 kJ/mÂ² @Temperature -30.0 Â°C	6.19 ft-lb/inÂ² @Temperature -22.0 Â°F	80*10*4; ISO 180/1A
	15.0 kJ/mÂ² @Temperature 23.0 Â°C	7.14 ft-lb/inÂ² @Temperature 73.4 Â°F	80*10*4; ISO 180/1A
Charpy Impact, Notched	1.90 J/cmÂ² @Temperature 23.0 Â°C	9.04 ft-lb/inÂ² @Temperature 73.4 Â°F	V-notch Edgew 80*10*4 sp=62mm; ISO 179/1eA
Impact Test	25.0 J @Temperature 23.0 Â°C	18.4 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 @Temperature -40.0 - 40.0 Â°C	33.3 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ASTM E 831
	60.0 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	33.3 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ISO 11359-2
CTE, linear, Transverse to Flow	60.0 Âµm/m-Â°C	33.3 Âµin/in-Â°F	ASTM E 831

Thermal Properties	Metric @Temperature -40.0 - 40.0 Â°C	English @Temperature -40.0 - 104 Â°F	Comments
	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	
Deflection Temperature at 1.8 MPa (264 psi)	150 Â°C	302 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	157 Â°C	315 Â°F	unannealed; ASTM D 648
	@Thickness 6.40 mm	@Thickness 0.252 in	
Vicat Softening Point	170 Â°C	338 Â°F	Rate B/50; ASTM D 1525
	170 Â°C	338 Â°F	Rate B/50; ISO 306
	175 Â°C	347 Â°F	Rate B/120; ISO 306
Flammability, UL94	HB	HB	UL 94
	@Thickness 0.760 mm	@Thickness 0.0299 in	

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