

SABIC Innovative Plastics Xenoy® HX6600HP PBT+PC (Europe-Africa-Middle East)

Category : Polymer , Thermoplastic , Polycarbonate (PC) , Polycarbonate/Polybutylene Terephthalate (PBT) Blend, Unreinforced , Polyester, TP , Polybutylene Terephthalate (PBT)

Material Notes:

Xenoy HX6600HP is PBT based semi-crystalline blend with balanced flow and impact properties. Improved chemical resistance against lab disinfectants and chemicals for healthcare enclosure and housing applications. Healthcare management of change, biocompatible (ISO10993 or USP Class VI). EtO, Gamma and Steam sterilizable.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-Xenoy-HX6600HP-PBTPC-Europe-Africa-Middle-East.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.21 g/cc	1.21 g/cc	ASTM D792
Density	1.21 g/cc	0.0437 lb/in ³	ISO 1183
Moisture Absorption	0.0500 %	0.0500 %	23Â°C / 50% RH; ISO 62
Water Absorption at Saturation	0.40 %	0.40 %	ISO 62
Viscosity	210000 cP	210000 cP	Melt Viscosity, 260Â°C, 1500 sec-1; ISO 11443
Linear Mold Shrinkage, Flow	0.012 - 0.016 cm/cm @Thickness 3.20 mm	0.012 - 0.016 in/in @Thickness 0.126 in	SABIC Method
Melt Flow	11 g/10 min @Load 5.00 kg, Temperature 250 Â°C	11 g/10 min @Load 11.0 lb, Temperature 482 Â°F	ASTM D1238
Melt Index of Compound	10 g/10 min @Load 5.00 kg, Temperature 250 Â°C	10 g/10 min @Load 11.0 lb, Temperature 482 Â°F	MVR [cm ³ /10 min]; ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	35.0 MPa	5080 psi	Type I, 50 mm/min; ASTM D638
	37.0 MPa	5370 psi	50 mm/min; ISO 527
Tensile Strength, Yield	43.0 MPa	6240 psi	Type I, 50 mm/min; ASTM D638
	44.0 MPa	6380 psi	50 mm/min; ISO 527
Elongation at Break	100 %	100 %	50 mm/min; ISO 527
	150 %	150 %	Type I, 50 mm/min; ASTM D638

Elongation at Yield Mechanical Properties	4.0 % Metric	4.0 % English	Type I, 50 mm/min; ASTM D638 Comments
	4.0 %	4.0 %	50 mm/min; ISO 527
Tensile Modulus	1.90 GPa	276 ksi	5 mm/min; ASTM D638
	1.90 GPa	276 ksi	1 mm/min; ISO 527
Flexural Yield Strength	43.0 MPa	6240 psi	1.3 mm/min, 50 mm span; ASTM D790
	64.0 MPa	9280 psi	2 mm/min; ISO 178
Flexural Modulus	1.80 GPa	261 ksi	2 mm/min; ISO 178
	1.90 GPa	276 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	8.00 J/cm	15.0 ft-lb/in	ASTM D256
	7.50 J/cm	14.1 ft-lb/in	ASTM D256
	@Temperature -30.0 Â°C	@Temperature -22.0 Â°F	
Izod Impact, Notched (ISO)	65.0 kJ/mÂ²	30.9 ft-lb/inÂ²	80*10*4; ISO 180/1A
	20.0 kJ/mÂ²	9.52 ft-lb/inÂ²	80*10*4; ISO 180/1A
	@Temperature -30.0 Â°C	@Temperature -22.0 Â°F	
Izod Impact, Unnotched (ISO)	NB	NB	80*10*4; ISO 180/1U
	@Temperature -40.0 Â°C	@Temperature -40.0 Â°F	
Charpy Impact Unnotched	NB	NB	Edgew 80*10*4 sp=62mm; ISO 179/1eU
	@Temperature -30.0 Â°C	@Temperature -22.0 Â°F	
Charpy Impact, Notched	7.00 J/cmÂ²	33.3 ft-lb/inÂ²	Edgew 80*10*4 sp=62mm; ISO 179/1eA
Dart Drop, Total Energy	100 J	73.8 ft-lb	ASTM D3763
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	
Impact Test	100 J	73.8 ft-lb	Multiaxial Impact; ISO 6603

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	100 Âµm/m-Â°C	55.6 Âµin/in-Â°F	ASTM E 831
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	

Thermal Properties	100 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$ Metric	55.6 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$ English	Comments ISO 11359-2
	@Temperature -40.0 - 40.0 $\text{Å}^\circ\text{C}$	@Temperature -40.0 - 104 $\text{Å}^\circ\text{F}$	
	130 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	72.2 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ISO 11359-2
	@Temperature 23.0 - 60.0 $\text{Å}^\circ\text{C}$	@Temperature 73.4 - 140 $\text{Å}^\circ\text{F}$	
CTE, linear, Transverse to Flow	100 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	55.6 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ASTM E 831
	@Temperature -40.0 - 40.0 $\text{Å}^\circ\text{C}$	@Temperature -40.0 - 104 $\text{Å}^\circ\text{F}$	
	100 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	55.6 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ISO 11359-2
	@Temperature -40.0 - 40.0 $\text{Å}^\circ\text{C}$	@Temperature -40.0 - 104 $\text{Å}^\circ\text{F}$	
Deflection Temperature at 0.46 MPa (66 psi)	95.0 $\text{Å}^\circ\text{C}$	203 $\text{Å}^\circ\text{F}$	Flatw 80*10*4 sp=64mm; ISO 75/Bf
Deflection Temperature at 1.8 MPa (264 psi)	60.0 $\text{Å}^\circ\text{C}$	140 $\text{Å}^\circ\text{F}$	Flatw 80*10*4 sp=64mm; ISO 75/Af
	60.0 $\text{Å}^\circ\text{C}$	140 $\text{Å}^\circ\text{F}$	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	
Vicat Softening Point	117 $\text{Å}^\circ\text{C}$	243 $\text{Å}^\circ\text{F}$	Rate B/50; ASTM D1525
	117 $\text{Å}^\circ\text{C}$	243 $\text{Å}^\circ\text{F}$	Rate B/50; ISO 306
	120 $\text{Å}^\circ\text{C}$	248 $\text{Å}^\circ\text{F}$	Rate B/120; ISO 306

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