

SABIC Innovative Plastics Xylex HX7409HP PC+POLYESTER (Asia Pacific)

Category : Polymer , Thermoplastic , Polycarbonate (PC) , Polycarbonate/PET Polyester Blend , Polyester, TP , Polyethylene Terephthalate (PET)

Material Notes:

Low flow, polycarbonate/Polyester alloy; contains mold release. For medical devices and pharmaceutical applications. Healthcare management of change (MoC), biocompatible (ISO 10993 or USP Class VI), food contact compliant. EtO and gamma sterilizable. This data was supplied by SABIC-IP for the Asia Pacific region.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-Xylex-HX7409HP-PCPOLYESTER-Asia-Pacific.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.20 g/cc	1.20 g/cc	ASTM D 792
Density	1.20 g/cc	0.0434 lb/in ³	ISO 1183
Moisture Absorption at Equilibrium	0.070 %	0.070 %	23°C / 50% RH; ISO 62
Water Absorption at Saturation	0.28 % @Temperature 23.0 °C	0.28 % @Temperature 73.4 °F	ISO 62
Linear Mold Shrinkage, Flow	0.0060 - 0.0080 cm/cm @Thickness 3.20 mm	0.0060 - 0.0080 in/in @Thickness 0.126 in	SABIC Method
Linear Mold Shrinkage, Transverse	0.0060 - 0.0080 cm/cm @Thickness 3.20 mm	0.0060 - 0.0080 in/in @Thickness 0.126 in	SABIC Method
Melt Flow	3.0 g/10 min @Load 2.16 kg, Temperature 265 °C	3.0 g/10 min @Load 4.76 lb, Temperature 509 °F	ASTM D 1238
	15 g/10 min @Load 10.0 kg, Temperature 265 °C	15 g/10 min @Load 22.0 lb, Temperature 509 °F	[cm ³ /10 min] Melt Volume Rate; ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	65.0 MPa	9430 psi	50 mm/min; ISO 527
	65.0 MPa	9430 psi	Type I, 50 mm/min; ASTM D 638
Tensile Strength, Yield	60.0 MPa	8700 psi	50 mm/min; ISO 527
	62.0 MPa	8990 psi	Type I, 50 mm/min; ASTM D 638
Elongation at Break	110 %	110 %	Type I, 50 mm/min; ASTM D 638
	135 %	135 %	50 mm/min; ISO 527

Mechanical Properties	6.0 % Metric	6.0 % English	50 mm/min; ISO 527 Comments
	6.0 %	6.0 %	Type I, 50 mm/min; ASTM D 638
Tensile Modulus	2.30 GPa	334 ksi	50 mm/min; ASTM D 638
	2.40 GPa	348 ksi	1 mm/min; ISO 527
Flexural Yield Strength	93.0 MPa	13500 psi	2 mm/min; ISO 178
	95.0 MPa	13800 psi	1.3 mm/min, 50 mm span; ASTM D 790
Flexural Modulus	2.18 GPa	316 ksi	2 mm/min; ISO 178
	2.28 GPa	331 ksi	1.3 mm/min, 50 mm span; ASTM D 790
Izod Impact, Notched	0.800 J/cm @Temperature -30.0 °C	1.50 ft-lb/in @Temperature -22.0 °F	ASTM D 256
	10.0 J/cm @Temperature 23.0 °C	18.7 ft-lb/in @Temperature 73.4 °F	ASTM D 256
Izod Impact, Notched (ISO)	6.00 kJ/m ² @Temperature -30.0 °C	2.86 ft-lb/in ² @Temperature -22.0 °F	80*10*4; ISO 180/1A
	15.0 kJ/m ² @Temperature 23.0 °C	7.14 ft-lb/in ² @Temperature 73.4 °F	80*10*4; ISO 180/1A
	78.0 kJ/m ² @Temperature 23.0 °C	37.1 ft-lb/in ² @Temperature 73.4 °F	63.5*12.7*3.2; ISO 180/4A
Charpy Impact, Notched	2.20 J/cm ² @Temperature 23.0 °C	10.5 ft-lb/in ² @Temperature 73.4 °F	V-notch Edgew 80*10*4 sp=62mm; ISO 179/1eA
Impact Test	85.0 J @Temperature 23.0 °C	62.7 ft-lb @Temperature 73.4 °F	Instrumented Impact Total Energy; ASTM D 3763

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	70.0 µm/m-°C @Temperature -40.0 - 40.0 °C	38.9 µin/in-°F @Temperature -40.0 - 104 °F	ISO 11359-2
	70.0 µm/m-°C @Temperature -40.0 - 95.0 °C	38.9 µin/in-°F @Temperature -40.0 - 203 °F	ASTM E 831
	70.0 µm/m-°C	38.9 µin/in-°F	

CTE, linear, Transverse to Flow Thermal Properties	Metric	English	ASTM E 831 Comments
	@ Temperature -40.0 - 95.0 °C	@ Temperature -40.0 - 203 °F	
	70.0 µm/m-°C	38.9 µin/in-°F	
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	ISO 11359-2
Deflection Temperature at 0.46 MPa (66 psi)	122 °C	252 °F	Edgew 120*10*4 sp=100mm; ISO 75/Be
	122 °C	252 °F	unannealed; ASTM D 648
	@Thickness 3.20 mm	@Thickness 0.126 in	
Deflection Temperature at 1.8 MPa (264 psi)	111 °C	232 °F	Edgew 120*10*4 sp=100mm; ISO 75/Ae
	111 °C	232 °F	unannealed; ASTM D 648
	@Thickness 3.20 mm	@Thickness 0.126 in	
Vicat Softening Point	127 °C	261 °F	Rate B/50; ISO 306
	129 °C	264 °F	Rate B/120; ISO 306
	130 °C	266 °F	Rate B/50; ASTM D 1525
Optical Properties	Metric	English	Comments
Transmission, Visible	79 %	79 %	ASTM D 1003
	@Thickness 2.54 mm	@Thickness 0.100 in	

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