

SABIC Innovative Plastics Xylex X8300HP PC+POLYESTER (Asia Pacific)

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

Material Notes:

Transparent, US Food Contact compliant, chemically resistant. This grade will no longer be supported with biocompatibility information and should not be used for medical applications which require biocompatibility. Alternative grade HX8300HP. 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-X8300HP-PCPOLYESTER-Asia-Pacific.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.20 g/cc	1.20 g/cc	ASTM D 792
Density	1.17 g/cc	0.0423 lb/in ³	ISO 1183
Linear Mold Shrinkage, Flow	0.0050 - 0.0080 cm/cm @Thickness 3.20 mm	0.0050 - 0.0080 in/in @Thickness 0.126 in	SABIC Method
Linear Mold Shrinkage, Transverse	0.0040 - 0.0060 cm/cm @Thickness 3.20 mm	0.0040 - 0.0060 in/in @Thickness 0.126 in	SABIC Method
Melt Flow	15 g/10 min @Load 2.16 kg, Temperature 265 Å°C	15 g/10 min @Load 4.76 lb, Temperature 509 Å°F	ASTM D 1238
	15 g/10 min @Load 2.16 kg, Temperature 265 Å°C	15 g/10 min @Load 4.76 lb, Temperature 509 Å°F	[cm ³ /10 min] Melt Volume Rate; ISO 1133

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	73	73	10S reading; ASTM D 2240
Tensile Strength at Break	46.0 MPa	6670 psi	Type I, 50 mm/min; ASTM D 638
	54.0 MPa	7830 psi	50 mm/min; ISO 527
Tensile Strength, Yield	47.0 MPa	6820 psi	Type I, 50 mm/min; ASTM D 638
	55.0 MPa	7980 psi	50 mm/min; ISO 527
Elongation at Break	150 %	150 %	Type I, 50 mm/min; ASTM D 638
	>= 200 %	>= 200 %	50 mm/min; ISO 527
Elongation at Yield	5.0 %	5.0 %	Type I, 50 mm/min; ASTM D 638
	5.0 %	5.0 %	50 mm/min; ISO 527

Mechanical Properties	Metric Pa	English	Comments, ASTM D 638
	1.60 GPa	232 ksi	1 mm/min; ISO 527
Flexural Strength	78.0 MPa	11300 psi	2 mm/min; ISO 178
Flexural Yield Strength	71.0 MPa	10300 psi	1.3 mm/min, 50 mm span; ASTM D 790
Flexural Modulus	1.68 GPa	244 ksi	1.3 mm/min, 50 mm span; ASTM D 790
	1.70 GPa	247 ksi	2 mm/min; ISO 178
Izod Impact, Notched	11.2 J/cm @Temperature 23.0 Â°C	21.0 ft-lb/in @Temperature 73.4 Â°F	ASTM D 256
Izod Impact, Notched (ISO)	8.00 kJ/mÂ² @Temperature 23.0 Â°C	3.81 ft-lb/inÂ² @Temperature 73.4 Â°F	80*10*4; ISO 180/1A
Impact Test	95.0 J @Temperature 23.0 Â°C	70.1 ft-lb @Temperature 73.4 Â°F	Instrumented Impact Total Energy; ASTM D 3763

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	90.0 Âµm/m-Â°C @Temperature 23.0 - 60.0 Â°C	50.0 Âµin/in-Â°F @Temperature 73.4 - 140 Â°F	ISO 11359-2
	105 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	58.3 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ASTM E 831
CTE, linear, Transverse to Flow	90.0 Âµm/m-Â°C @Temperature 23.0 - 60.0 Â°C	50.0 Âµin/in-Â°F @Temperature 73.4 - 140 Â°F	ISO 11359-2
	105 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	58.3 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ASTM E 831
Thermal Conductivity	0.230 W/m-K	1.60 BTU-in/hr-ftÂ²- Â°F	ISO 8302
Hot Ball Pressure Test	<= 85.0 Â°C	<= 185 Â°F	IEC 60695-10-2
Deflection Temperature at 0.46 MPa (66 psi)	79.0 Â°C @Thickness 3.20 mm	174 Â°F @Thickness 0.126 in	unannealed; ASTM D 648

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (104 psi)	75.0 Â°C @Thickness 3.20 mm	167 Â°F @Thickness 0.126 in	Edgew 120-10*4 sp=100mm; ISO 19750 unannealed; ASTM D 648
Vicat Softening Point	96.0 Â°C	205 Â°F	Rate B/50; ASTM D 1525
	96.0 Â°C	205 Â°F	Rate B/120; ISO 306
Glow Wire Test	750 Â°C @Thickness 1.00 mm	1380 Â°F @Thickness 0.0394 in	Glow Wire Flammability Index; IEC 60695-2-12

Optical Properties	Metric	English	Comments
Refractive Index	1.539	1.539	ISO 489
Haze	1.0 % @Thickness 2.54 mm	1.0 % @Thickness 0.100 in	ASTM D 1003
Transmission, Visible	88 % @Thickness 2.54 mm	88 % @Thickness 0.100 in	ASTM D 1003

Electrical Properties	Metric	English	Comments
Volume Resistivity	>= 1.00e+15 ohm-cm	>= 1.00e+15 ohm-cm	ASTM D 257
Surface Resistance	>= 1.00e+15 ohm	>= 1.00e+15 ohm	ASTM D 257
Comparative Tracking Index	>= 600 V	>= 600 V	PLC code 0; UL 746A

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