

SABIC Innovative Plastics Xylex X8300HP PC+POLYESTER (Europe-Africa-Middle East)

Category : Polymer , Thermoplastic , Polycarbonate (PC) , Polyester, TP

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 Europe-Africa-Middle East region.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-Xylex-X8300HP-PCPOLYESTER-Europe-Africa-Middle-East.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 Â°C	15 g/10 min @Load 4.76 lb, Temperature 509 Â°F	ASTM D 1238
	15 g/10 min @Load 2.16 kg, Temperature 265 Â°C	15 g/10 min @Load 4.76 lb, Temperature 509 Â°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

Mechanical Properties	5.0 % Metric	5.0 % English	50 mm/min; ISO 527 Comments
Tensile Modulus	1.52 GPa	220 ksi	50 mm/min; 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	79.0 Â°C	174 Â°F	unannealed; ASTM D 648

(56 psi) Thermal Properties	@Thickness 3.20 mm Metric	@Thickness 0.126 in English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	80.0 Â°C	176 Â°F	Edgew 120*10*4 sp=100mm; ISO 75/Ae
	75.0 Â°C	167 Â°F	unannealed; ASTM D 648
	@Thickness 3.20 mm	@Thickness 0.126 in	
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	1380 Â°F	Glow Wire Flammability Index; IEC 60695-2-12
	@Thickness 1.00 mm	@Thickness 0.0394 in	

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

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

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China