

SABIC Innovative Plastics Xylex X7503HP PC+POLYESTER (Europe-Africa-Middle East)

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

Material Notes:

Clear PC-Siloxane copolymer + Polyester alloy, USA Food Contact 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-X7503HP-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	1.20 g/cc	0.0434 lb/in ³	ISO 1183
Moisture Absorption at Equilibrium	0.20 %	0.20 %	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	0.0060 - 0.0080 cm/cm @Thickness 3.20 mm	0.0060 - 0.0080 in/in @Thickness 0.126 in	SABIC Method
Melt Flow	8.0 g/10 min @Load 2.16 kg, Temperature 265 ^o C	8.0 g/10 min @Load 4.76 lb, Temperature 509 ^o F	ASTM D 1238
	8.0 g/10 min @Load 2.16 kg, Temperature 265 ^o C	8.0 g/10 min @Load 4.76 lb, Temperature 509 ^o F	[cm ³ /10 min] Melt Volume Rate; ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	54.0 MPa	7830 psi	50 mm/min; ISO 527
	55.0 MPa	7980 psi	Type I, 50 mm/min; ASTM D 638
Tensile Strength, Yield	57.0 MPa	8270 psi	Type I, 50 mm/min; ASTM D 638
	58.0 MPa	8410 psi	50 mm/min; ISO 527
Elongation at Break	100 %	100 %	Type I, 50 mm/min; ASTM D 638
	100 %	100 %	50 mm/min; ISO 527
Elongation at Yield	5.0 %	5.0 %	Type I, 50 mm/min; ASTM D 638

Mechanical Properties	6.0% Metric	6.0% English	50 mm/min; ISO 527 Comments
Tensile Modulus	2.10 GPa	305 ksi	5 mm/min; ASTM D 638
	2.10 GPa	305 ksi	1 mm/min; ISO 527
Flexural Yield Strength	84.0 MPa	12200 psi	2 mm/min; ISO 178
	86.0 MPa	12500 psi	1.3 mm/min, 50 mm span; ASTM D 790
Flexural Modulus	1.90 GPa	276 ksi	1.3 mm/min, 50 mm span; ASTM D 790
	2.10 GPa	305 ksi	2 mm/min; ISO 178
Izod Impact, Notched	7.50 J/cm @Temperature -30.0 Â°C	14.1 ft-lb/in @Temperature -22.0 Â°F	ASTM D 256
	9.20 J/cm @Temperature 23.0 Â°C	17.2 ft-lb/in @Temperature 73.4 Â°F	ASTM D 256
Izod Impact, Notched (ISO)	17.0 kJ/mÂ² @Temperature -30.0 Â°C	8.09 ft-lb/inÂ² @Temperature -22.0 Â°F	80*10*4; ISO 180/1A
	68.0 kJ/mÂ² @Temperature 23.0 Â°C	32.4 ft-lb/inÂ² @Temperature 73.4 Â°F	80*10*4; ISO 180/1A
Charpy Impact, Notched	7.00 J/cmÂ² @Temperature 23.0 Â°C	33.3 ft-lb/inÂ² @Temperature 73.4 Â°F	V-notch Edgew 80*10*4 sp=62mm; ISO 179/1eA
Impact Test	71.0 J @Temperature 23.0 Â°C	52.4 ft-lb @Temperature 73.4 Â°F	Instrumented Impact Total Energy; ASTM D 3763

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	70.0 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	38.9 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ASTM E 831
	77.0 Âµm/m-Â°C @Temperature 23.0 - 60.0 Â°C	42.8 Âµin/in-Â°F @Temperature 73.4 - 140 Â°F	ISO 11359-2
CTE, linear, Transverse to Flow	70.0 Âµm/m-Â°C	38.9 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
	78.0 Âµm/m-Â°C	43.3 Âµin/in-Â°F	ISO 11359-2
	@Temperature 23.0 - 60.0 Â°C	@Temperature 73.4 - 140 Â°F	
Deflection Temperature at 0.46 MPa (66 psi)	124 Â°C	255 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	124 Â°C	255 Â°F	unannealed; ASTM D 648
	@Thickness 3.20 mm	@Thickness 0.126 in	
Deflection Temperature at 1.8 MPa (264 psi)	110 Â°C	230 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	110 Â°C	230 Â°F	unannealed; ASTM D 648
	@Thickness 3.20 mm	@Thickness 0.126 in	
Vicat Softening Point	130 Â°C	266 Â°F	Rate B/50; ISO 306
	132 Â°C	270 Â°F	Rate B/120; ISO 306
	132 Â°C	270 Â°F	Rate B/50; ASTM D 1525

Optical Properties	Metric	English	Comments
Haze	2.0 %	2.0 %	ASTM D 1003
	@Thickness 2.54 mm	@Thickness 0.100 in	
Transmission, Visible	86 %	86 %	ASTM D 1003
	@Thickness 2.54 mm	@Thickness 0.100 in	

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