

SABIC Innovative Plastics XYLEX X7503 PC+POLYESTER

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

Material Notes:

PC-Siloxane copolymer + Polyester alloy, High Impact, Transparent

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-XYLEX-X7503-PCPOLYESTER.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.20 g/cc	1.20 g/cc	ASTM D792
Density	1.20 g/cc	0.0434 lb/in ³	ISO 1183
Moisture Absorption	0.200 %	0.200 %	23 ^o C / 50% RH; ISO 62
Water Absorption at Saturation	0.50 %	0.50 %	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 D1238
Melt Index of Compound	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	MVR [cm ³ /10 min]; 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 D638
Tensile Strength, Yield	57.0 MPa	8270 psi	Type I, 50 mm/min; ASTM D638
	58.0 MPa	8410 psi	50 mm/min; ISO 527
Elongation at Break	100 %	100 %	Type I, 50 mm/min; ASTM D638
	100 %	100 %	50 mm/min; ISO 527
Elongation at Yield	5.0 %	5.0 %	Type I, 50 mm/min; ASTM D638
	6.0 %	6.0 %	50 mm/min; ISO 527
Tensile Modulus	2.10 GPa	305 ksi	5 mm/min; ASTM D638
	2.10 GPa	305 ksi	1 mm/min; ISO 527

Mechanical Properties	Metric	English	Comments
	86.0 MPa	12500 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	1.90 GPa	276 ksi	1.3 mm/min, 50 mm span; ASTM D790
	2.10 GPa	305 ksi	2 mm/min; ISO 178
Izod Impact, Notched	9.20 J/cm	17.2 ft-lb/in	ASTM D256
	7.50 J/cm	14.1 ft-lb/in	ASTM D256
	@Temperature -30.0 Å°C	@Temperature -22.0 Å°F	
Izod Impact, Notched (ISO)	68.0 kJ/mÅ²	32.4 ft-lb/inÅ²	80*10*4; ISO 180/1A
	17.0 kJ/mÅ²	8.09 ft-lb/inÅ²	80*10*4; ISO 180/1A
	@Temperature -30.0 Å°C	@Temperature -22.0 Å°F	
Charpy Impact, Notched	7.00 J/cmÅ²	33.3 ft-lb/inÅ²	Edgew 80*10*4 sp=62mm; ISO 179/1eA
Dart Drop, Total Energy	71.0 J	52.4 ft-lb	ASTM D3763
	@Temperature 23.0 Å°C	@Temperature 73.4 Å°F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	70.0 Åµm/m-Å°C	38.9 Åµin/in-Å°F	ASTM E 831
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
	77.0 Åµm/m-Å°C	42.8 Åµin/in-Å°F	ISO 11359-2
	@Temperature 23.0 - 60.0 Å°C	@Temperature 73.4 - 140 Å°F	
CTE, linear, Transverse to Flow	70.0 Åµm/m-Å°C	38.9 Åµin/in-Å°F	ASTM E 831
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
	78.0 Åµm/m-Å°C	43.3 Åµin/in-Å°F	ISO 11359-2
	@Temperature 23.0 - 60.0 Å°C	@Temperature 73.4 - 140 Å°F	
Deflection Temperature at 0.46 MPa (66 psi)	124 Å°C	255 Å°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	124 Å°C	255 Å°F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (104 psi)	110 Â°C @Thickness 3.20 mm	230 Â°F @Thickness 0.126 in	unannealed; ASTM D648
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 D1525
Flammability, UL94	V-2 @Thickness 3.00 mm	V-2 @Thickness 0.118 in	UL 94

Optical Properties	Metric	English	Comments
Haze	2.0 % @Thickness 2.54 mm	2.0 % @Thickness 0.100 in	ASTM D1003
Transmission, Visible	86 %	86 %	2.54 mm; ASTM D1003

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