

SABIC Innovative Plastics XYLEX X7300CL PC+POLYESTER

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

Material Notes:

PC+ POLYESTER unreinforced alloy developed for optical or lense market. Chemical resistance.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-XYLEX-X7300CL-PCPOLYESTER.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.20 g/cc	1.20 g/cc	ASTM D792
Density	1.18 g/cc	0.0426 lb/in ³	ISO 1183
Moisture Absorption	0.120 %	0.120 %	23 ^o C / 50% RH; ISO 62
Water Absorption at Saturation	0.50 %	0.50 %	ISO 62
Linear Mold Shrinkage, Flow	0.0040 - 0.0080 cm/cm @Thickness 3.20 mm	0.0040 - 0.0080 in/in @Thickness 0.126 in	SABIC Method
Linear Mold Shrinkage, Transverse	0.0050 - 0.0070 cm/cm @Thickness 3.20 mm	0.0050 - 0.0070 in/in @Thickness 0.126 in	SABIC Method
Melt Flow	21 g/10 min @Load 2.16 kg, Temperature 265 ^o C	21 g/10 min @Load 4.76 lb, Temperature 509 ^o F	ASTM D1238
	44 g/10 min @Load 1.20 kg, Temperature 300 ^o C	44 g/10 min @Load 2.65 lb, Temperature 572 ^o F	ASTM D1238
Melt Index of Compound	20 g/10 min @Load 2.16 kg, Temperature 265 ^o C	20 g/10 min @Load 4.76 lb, Temperature 509 ^o F	MVR [cm ³ /10 min]; ISO 1133
	42 g/10 min @Load 1.20 kg, Temperature 300 ^o C	42 g/10 min @Load 2.65 lb, Temperature 572 ^o F	MVR [cm ³ /10 min]; ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	52.0 MPa	7540 psi	Type I, 50 mm/min; ASTM D638
	55.0 MPa	7980 psi	50 mm/min; ISO 527
Tensile Strength, Yield	49.0 MPa	7110 psi	Type I, 50 mm/min; ASTM D638
	55.0 MPa	7980 psi	50 mm/min; ISO 527

Mechanical Properties	Metric	English	Comments
	>= 150 %	>= 150 %	50 mm/min; ISO 527
Elongation at Yield	5.0 %	5.0 %	Type I, 50 mm/min; ASTM D638
	5.0 %	5.0 %	50 mm/min; ISO 527
Tensile Modulus	1.84 GPa	267 ksi	50 mm/min; ASTM D638
	1.90 GPa	276 ksi	1 mm/min; ISO 527
Flexural Strength	71.0 MPa	10300 psi	2 mm/min; ISO 178
Flexural Yield Strength	83.0 MPa	12000 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	1.94 GPa	281 ksi	1.3 mm/min, 50 mm span; ASTM D790
	2.00 GPa	290 ksi	2 mm/min; ISO 178
Izod Impact, Notched	6.60 J/cm	12.4 ft-lb/in	ASTM D256
	0.560 J/cm	1.05 ft-lb/in	ASTM D256
	@Temperature -30.0 Â°C	@Temperature -22.0 Â°F	
Izod Impact, Notched (ISO)	10.0 kJ/mÂ²	4.76 ft-lb/inÂ²	80*10*4; ISO 180/1A
	5.00 kJ/mÂ²	2.38 ft-lb/inÂ²	80*10*4; ISO 180/1A
	@Temperature -10.0 Â°C	@Temperature 14.0 Â°F	
	7.00 kJ/mÂ²	3.33 ft-lb/inÂ²	80*10*4; ISO 180/1A
	@Temperature -30.0 Â°C	@Temperature -22.0 Â°F	
Charpy Impact, Notched	1.10 J/cmÂ²	5.23 ft-lb/inÂ²	Edgew 80*10*4 sp=62mm; ISO 179/1eA
Dart Drop, Total Energy	95.0 J	70.1 ft-lb	ASTM D3763
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	85.0 Âµm/m-Â°C	47.2 Âµin/in-Â°F	ISO 11359-2
	@Temperature 23.0 - 60.0 Â°C	@Temperature 73.4 - 140 Â°F	
	115 Âµm/m-Â°C	63.9 Âµin/in-Â°F	ASTM E 831
	@Temperature -40.0 -	@Temperature -40.0 -	

Thermal Properties	40.0 Å°C Metric	104 Å°F English	Comments
CTE, linear, Transverse to Flow	85.0 Åµm/m-Å°C	47.2 Åµin/in-Å°F	ISO 11359-2
	@Temperature 23.0 - 60.0 Å°C	@Temperature 73.4 - 140 Å°F	
	105 Åµm/m-Å°C	58.3 Åµin/in-Å°F	ASTM E 831
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
Deflection Temperature at 0.46 MPa (66 psi)	102 Å°C	216 Å°F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	
Deflection Temperature at 1.8 MPa (264 psi)	90.0 Å°C	194 Å°F	Edgew 120*10*4 sp=100mm; ISO 75/Ae
	92.0 Å°C	198 Å°F	
	88.0 Å°C	190 Å°F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	
Vicat Softening Point	106 Å°C	223 Å°F	Rate B/120; ISO 306
	107 Å°C	225 Å°F	Rate B/50; ISO 306
	108 Å°C	226 Å°F	Rate B/50; ASTM D1525
Flammability, UL94	V-2	V-2	UL 94
	@Thickness 3.00 mm	@Thickness 0.118 in	

Optical Properties	Metric	English	Comments
Haze	2.0 %	2.0 %	ASTM D1003
	@Thickness 2.54 mm	@Thickness 0.100 in	
Transmission, Visible	88 %	88 %	2.54 mm; ASTM D1003

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