

SABIC Innovative Plastics XYLEX X7507 PC+POLYESTER (Europe-Africa-Middle East)

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

Material Notes:

F-1 weathering certified in natural color, specially designed for Pool & Spa applications. Currently available in natural color only.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-XYLEX-X7507-PCPOLYESTER-Europe-Africa-Middle-East.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	0.120 %	0.120 %	23 ^o C / 50% RH; ISO 62
Water Absorption at Saturation	0.32 %	0.32 %	ISO 62
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
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	5.0 g/10 min @Load 2.16 kg, Temperature 265 ^o C	5.0 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	59.0 MPa	8560 psi	50 mm/min; ISO 527
	65.0 MPa	9430 psi	Type I, 50 mm/min; ASTM D638
Tensile Strength, Yield	61.0 MPa	8850 psi	Type I, 50 mm/min; ASTM D638
	62.0 MPa	8990 psi	50 mm/min; ISO 527
Elongation at Break	110 %	110 %	50 mm/min; ISO 527
	130 %	130 %	Type I, 50 mm/min; ASTM D638
Elongation at Yield	5.4 %	5.4 %	50 mm/min; ISO 527
	6.0 %	6.0 %	Type I, 50 mm/min; ASTM D638
Tensile Modulus	2.30 GPa	334 ksi	5 mm/min; ASTM D638

Mechanical Properties	2.66 GPa Metric	386 ksi English	1 mm/min; ISO 527 Comments
Flexural Yield Strength	92.0 MPa	13300 psi	2 mm/min; ISO 178
	96.0 MPa	13900 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	2.18 GPa	316 ksi	2 mm/min; ISO 178
	2.32 GPa	336 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	9.90 J/cm	18.5 ft-lb/in	ASTM D256
	2.00 J/cm @Temperature -30.0 Â°C	3.75 ft-lb/in @Temperature -22.0 Â°F	ASTM D256
Izod Impact, Notched (ISO)	9.00 kJ/mÂ²	4.28 ft-lb/inÂ²	80*10*4; ISO 180/1A
	6.00 kJ/mÂ² @Temperature -30.0 Â°C	2.86 ft-lb/inÂ² @Temperature -22.0 Â°F	80*10*4; ISO 180/1A
Charpy Impact, Notched	2.00 J/cmÂ²	9.52 ft-lb/inÂ²	Edgew 80*10*4 sp=62mm; ISO 179/1eA
Dart Drop, Total Energy	79.0 J	58.3 ft-lb	ASTM D3763
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	60.0 Âµm/m-Â°C	33.3 Âµin/in-Â°F	ASTM E 831
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
	60.0 Âµm/m-Â°C	33.3 Âµin/in-Â°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
CTE, linear, Transverse to Flow	63.0 Âµm/m-Â°C	35.0 Âµin/in-Â°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
	70.0 Âµm/m-Â°C	38.9 Âµin/in-Â°F	ASTM E 831
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
Deflection Temperature at 1.8 MPa (264 psi)	105 Â°C	221 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	104 Â°C	219 Â°F	unannealed; ASTM D648

Thermal Properties	@Thickness 3.20 mm Metric	@Thickness 0.126 in English	Comments
Vicat Softening Point	125 Å°C	257 Å°F	Rate B/50; ASTM D1525
	125 Å°C	257 Å°F	Rate B/50; ISO 306
	127 Å°C	261 Å°F	Rate B/120; ISO 306

Optical Properties	Metric	English	Comments
Haze	1.6 % @Thickness 2.54 mm	1.6 % @Thickness 0.100 in	ASTM D1003
Transmission, Visible	>= 85 %	>= 85 %	2.54 mm; ASTM D1003

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