

SABIC Innovative Plastics XYLEX X7507 PC+POLYESTER (Asia Pacific)

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-Asia-Pacific.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
	2.66 GPa	386 ksi	1 mm/min; ISO 527

Mechanical Properties	Metric	English	Comments
	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	3.75 ft-lb/in	ASTM D256
	@Temperature -30.0 Å°C	@Temperature -22.0 Å°F	
Izod Impact, Notched (ISO)	9.00 kJ/mÅ²	4.28 ft-lb/inÅ²	80*10*4; ISO 180/1A
	6.00 kJ/mÅ²	2.86 ft-lb/inÅ²	80*10*4; ISO 180/1A
	@Temperature -30.0 Å°C	@Temperature -22.0 Å°F	
Charpy Impact, Notched	2.00 J/cmÅ²	9.52 ft-lb/inÅ²	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 Å°C	@Temperature 73.4 Å°F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	60.0 Åµm/m-Å°C	33.3 Åµin/in-Å°F	ASTM E 831
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
	60.0 Åµm/m-Å°C	33.3 Åµin/in-Å°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
CTE, linear, Transverse to Flow	63.0 Åµm/m-Å°C	35.0 Åµin/in-Å°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
	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	
Deflection Temperature at 1.8 MPa (264 psi)	105 Å°C	221 Å°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	104 Å°C	219 Å°F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	

Vicat Softening Point Thermal Properties	125 Â°C Metric	257 Â°F English	Rate B/50; ASTM D1525 Comments
	125 Â°C	257 Â°F	Rate B/50; ISO 306
	127 Â°C	261 Â°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