

SABIC Innovative Plastics XYLEX X7507 PC+POLYESTER

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.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-XYLEX-X7507-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 | 0.120 % | 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 |

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