

SABIC Innovative Plastics XYLEX FXY330DF PC+POLYESTER (Europe-Africa-Middle East)

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

Material Notes:

Polyester+PC alloy. Diffusion Effect. Color package may affect performance.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-XYLEX-FXY330DF-PCPOLYESTER-Europe-Africa-Middle-East.php

| Physical Properties | Metric | English | Comments |
|-----------------------------------|---|---|---|
| Specific Gravity | 1.17 g/cc | 1.17 g/cc | ASTM D792 |
| Density | 1.17 g/cc | 0.0423 lb/in ³ | ISO 1183 |
| Moisture Absorption | 0.270 % | 0.270 % | 23 ^o C / 50% RH; ISO 62 |
| Water Absorption at Saturation | 0.70 % | 0.70 % | ISO 62 |
| Linear Mold Shrinkage, Flow | 0.0050 - 0.0070 cm/cm @Thickness 3.20 mm | 0.0050 - 0.0070 in/in @Thickness 0.126 in | SABIC Method |
| Linear Mold Shrinkage, Transverse | 0.0040 - 0.0060 cm/cm @Thickness 3.20 mm | 0.0040 - 0.0060 in/in @Thickness 0.126 in | SABIC Method |
| Melt Flow | 15 g/10 min @Load 2.16 kg, Temperature 265 ^o C | 15 g/10 min @Load 4.76 lb, Temperature 509 ^o F | ASTM D1238 |
| Melt Index of Compound | 13 g/10 min @Load 2.16 kg, Temperature 265 ^o C | 13 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 | 49.0 MPa | 7110 psi | Type I, 50 mm/min; ASTM D638 |
| | 50.0 MPa | 7250 psi | 50 mm/min; ISO 527 |
| Tensile Strength, Yield | 47.0 MPa | 6820 psi | Type I, 50 mm/min; ASTM D638 |
| | 49.0 MPa | 7110 psi | 50 mm/min; ISO 527 |
| Elongation at Break | 170 % | 170 % | Type I, 50 mm/min; ASTM D638 |
| | >= 200 % | >= 200 % | 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 |

| Mechanical Properties | Metric | English | Comments |
|----------------------------|---------------------------|---------------------------|------------------------------------|
| Tensile Modulus | 1.44 GPa | 209 ksi | 50 mm/min; ASTM D638 |
| | 1.58 GPa | 229 ksi | 1 mm/min; ISO 527 |
| Flexural Yield Strength | 67.0 MPa | 9720 psi | 1.3 mm/min, 50 mm span; ASTM D790 |
| | 77.0 MPa | 11200 psi | 2 mm/min; ISO 178 |
| Flexural Modulus | 1.50 GPa | 218 ksi | 1.3 mm/min, 50 mm span; ASTM D790 |
| | 1.60 GPa | 232 ksi | 2 mm/min; ISO 178 |
| Izod Impact, Notched | 0.700 J/cm | 1.31 ft-lb/in | ASTM D256 |
| | 0.550 J/cm | 1.03 ft-lb/in | ASTM D256 |
| | @Temperature -30.0 Â°C | @Temperature -22.0 Â°F | |
| | 0.640 J/cm | 1.20 ft-lb/in | ASTM D256 |
| | @Temperature 0.000 Â°C | @Temperature 32.0 Â°F | |
| Izod Impact, Notched (ISO) | 7.00 kJ/mÂ² | 3.33 ft-lb/inÂ² | 80*10*4; ISO 180/1A |
| | 4.00 kJ/mÂ² | 1.90 ft-lb/inÂ² | 80*10*4; ISO 180/1A |
| | @Temperature -30.0 Â°C | @Temperature -22.0 Â°F | |
| Charpy Impact, Notched | 0.700 J/cmÂ² | 3.33 ft-lb/inÂ² | Edgew 80*10*4 sp=62mm; ISO 179/1eA |
| Dart Drop, Total Energy | 60.0 J | 44.3 ft-lb | ASTM D3763 |
| | @Temperature 23.0 Â°C | @Temperature 73.4 Â°F | |

| Thermal Properties | Metric | English | Comments |
|---------------------------------|----------------------------------|---------------------------------|-------------|
| CTE, linear, Parallel to Flow | 89.0 Âµm/m-Â°C | 49.4 Âµin/in-Â°F | ASTM E 831 |
| | @Temperature -40.0 - 40.0 Â°C | @Temperature -40.0 - 104 Â°F | |
| | 90.0 Âµm/m-Â°C | 50.0 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 | 90.0 Âµm/m-Â°C | 50.0 Âµin/in-Â°F | ISO 11359-2 |
| | @Temperature -40.0 - 40.0 Â°C | @Temperature -40.0 - 104 Â°F | |
| | 94.0 Âµm/m-Â°C | 52.2 Âµin/in-Â°F | |

| Thermal Properties | Metric @ Temperature -40.0 - 40.0 Â°C | English @ Temperature -40.0 - 104 Â°F | ASTM F 831 Comments |
|--|---|---|----------------------------------|
| Deflection Temperature at 1.8 MPa (264 psi) | 78.0 Â°C | 172 Â°F | Flatw 80*10*4 sp=64mm; ISO 75/Af |
| | 72.0 Â°C @Thickness 3.20 mm | 162 Â°F @Thickness 0.126 in | unannealed; ASTM D648 |
| Vicat Softening Point | 90.0 Â°C | 194 Â°F | Rate B/50; ASTM D1525 |
| | 92.0 Â°C | 198 Â°F | Rate B/50; ISO 306 |
| | 93.0 Â°C | 199 Â°F | Rate B/120; ISO 306 |

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