

SABIC Innovative Plastics Xenoy® 1760E PBT+PC

Category : Polymer , Thermoplastic , Polycarbonate (PC) , Polycarbonate/Polybutylene Terephthalate (PBT) Blend, Glass Filled , Polyester, TP , Polybutylene Terephthalate (PBT)

Material Notes:

11% Glass Reinforced alloy. Impact/chemical resistant. Excellent physical property retention in automotive exteriors. High flow version of Xenoy 1760 resin.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-Xenoy-1760E-PBTPC.php

| Physical Properties | Metric | English | Comments |
|-----------------------------------|---|---|---|
| Specific Gravity | 1.30 g/cc | 1.30 g/cc | ASTM D792 |
| Density | 1.30 g/cc | 0.0470 lb/in ³ | ISO 1183 |
| Moisture Absorption | 0.150 % | 0.150 % | 23 ^o C / 50% RH; ISO 62 |
| Water Absorption at Saturation | 0.50 % | 0.50 % | ISO 62 |
| Linear Mold Shrinkage, Flow | 0.0040 - 0.0060 cm/cm @Thickness 3.20 mm | 0.0040 - 0.0060 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 5.00 kg, Temperature 250 ^o C | 15 g/10 min @Load 11.0 lb, Temperature 482 ^o F | ASTM D1238 |
| Melt Index of Compound | 27 g/10 min @Load 5.00 kg, Temperature 265 ^o C | 27 g/10 min @Load 11.0 lb, Temperature 509 ^o F | MVR [cm ³ /10 min]; ISO 1133 |

| Mechanical Properties | Metric | English | Comments |
|---------------------------|----------|-----------|-----------------------------|
| Tensile Strength at Break | 84.0 MPa | 12200 psi | Type I, 5 mm/min; ASTM D638 |
| | 84.0 MPa | 12200 psi | 5 mm/min; ISO 527 |
| Tensile Strength, Yield | 84.0 MPa | 12200 psi | Type I, 5 mm/min; ASTM D638 |
| | 84.0 MPa | 12200 psi | 5 mm/min; ISO 527 |
| Elongation at Break | 3.0 % | 3.0 % | Type I, 5 mm/min; ASTM D638 |
| | 3.0 % | 3.0 % | 5 mm/min; ISO 527 |
| Elongation at Yield | 3.0 % | 3.0 % | Type I, 5 mm/min; ASTM D638 |

| Mechanical Properties | 3.0% Metric | 3.0% English | 5 mm/min* ISO 527 Comments |
|----------------------------|--|--|---|
| Tensile Modulus | 4.80 GPa | 696 ksi | 1 mm/min; ISO 527 |
| | 5.31 GPa | 770 ksi | 5 mm/min; ASTM D638 |
| Flexural Yield Strength | 131 MPa | 19000 psi | 1.3 mm/min, 50 mm span; ASTM D790 |
| | 133 MPa | 19300 psi | 2 mm/min; ISO 178 |
| Flexural Modulus | 3.91 GPa | 567 ksi | 1.3 mm/min, 50 mm span; ASTM D790 |
| | 4.01 GPa | 582 ksi | 2 mm/min; ISO 178 |
| Izod Impact, Notched | 0.630 J/cm | 1.18 ft-lb/in | ASTM D256 |
| | 0.600 J/cm @Temperature -30.0 Â°C | 1.12 ft-lb/in @Temperature -22.0 Â°F | ASTM D256 |
| Izod Impact, Notched (ISO) | 3.00 kJ/mÂ² | 1.43 ft-lb/inÂ² | 80*10*4; ISO 180/1A |
| | 3.00 kJ/mÂ² @Temperature -30.0 Â°C | 1.43 ft-lb/inÂ² @Temperature -22.0 Â°F | 80*10*4; ISO 180/1A |
| Charpy Impact, Notched | 1.20 J/cmÂ² | 5.71 ft-lb/inÂ² | Edgew 80*10*4 sp=62mm; ISO 179/1eA |
| Dart Drop, Total Energy | 3.00 J | 2.21 ft-lb | ASTM D3763 |
| | 3.00 J @Temperature -30.0 Â°C | 2.21 ft-lb @Temperature -22.0 Â°F | Instrumented Impact Energy @ peak; ASTM D3763 |
| | 4.00 J | 2.95 ft-lb | Instrumented Impact, Energy @ peak, -20Â°C; ASTM D3763 |
| | 4.00 J @Temperature -20.0 Â°C | 2.95 ft-lb @Temperature -4.00 Â°F | |
| | 8.00 J | 5.90 ft-lb | ASTM D3763 |
| | 8.00 J @Temperature 23.0 Â°C | 5.90 ft-lb @Temperature 73.4 Â°F | |

| Thermal Properties | Metric | English | Comments |
|-------------------------------|----------------------------------|---------------------------------|------------|
| CTE, linear, Parallel to Flow | 39.0 Âµm/m-Â°C | 21.7 Âµin/in-Â°F | ASTM E 831 |
| | @Temperature -40.0 - 40.0 Â°C | @Temperature -40.0 - 104 Â°F | |

| Thermal Properties | 39.0 Åµm/m-Å°C Metric | 21.7 Åµin/in-Å°F English | Comments ISO 11359-2 |
|---|-------------------------------|------------------------------|----------------------------------|
| | @Temperature -40.0 - 40.0 Å°C | @Temperature -40.0 - 104 Å°F | |
| CTE, linear, Transverse to Flow | 76.0 Åµm/m-Å°C | 42.2 Åµin/in-Å°F | ASTM E 831 |
| | @Temperature -40.0 - 40.0 Å°C | @Temperature -40.0 - 104 Å°F | |
| | 76.0 Åµm/m-Å°C | 42.2 Åµin/in-Å°F | ISO 11359-2 |
| | @Temperature -40.0 - 40.0 Å°C | @Temperature -40.0 - 104 Å°F | |
| Deflection Temperature at 1.8 MPa (264 psi) | 101 Å°C | 214 Å°F | Flatw 80*10*4 sp=64mm; ISO 75/Af |
| | 116 Å°C | 241 Å°F | unannealed; ASTM D648 |
| | @Thickness 6.40 mm | @Thickness 0.252 in | |
| | 125 Å°C | 257 Å°F | unannealed; ASTM D648 |
| | @Thickness 3.20 mm | @Thickness 0.126 in | |
| Vicat Softening Point | 121 Å°C | 250 Å°F | Rate B/50; ASTM D1525 |
| | 130 Å°C | 266 Å°F | Rate B/120; ISO 306 |
| | 135 Å°C | 275 Å°F | Rate B/50; ISO 306 |

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