

SABIC Innovative Plastics Xenoy[®] X5630 PC+PET (Asia Pacific)

Category : Polymer , Thermoplastic , ABS Polymer , Polycarbonate/ABS Alloy, Unreinforced , Polycarbonate (PC)

Material Notes:

Mineral filled PC/PET blend with high heat dimensional stability, low shrinkage and low CTE, especially for painted applications

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-Xenoy-X5630-PCPET-Asia-Pacific.php

| Physical Properties | Metric | English | Comments |
|--------------------------------|---|---|---|
| Specific Gravity | 1.35 g/cc | 1.35 g/cc | ASTM D792 |
| Density | 1.35 g/cc | 0.0488 lb/in ³ | ISO 1183 |
| Moisture Absorption | 0.140 % | 0.140 % | 23 [°] C / 50% RH; ISO 62 |
| Water Absorption at Saturation | 0.42 % | 0.42 % | ISO 62 |
| Linear Mold Shrinkage, Flow | 0.0050 - 0.0060 cm/cm @Thickness 3.20 mm | 0.0050 - 0.0060 in/in @Thickness 0.126 in | SABIC Method |
| Melt Flow | 11 g/10 min @Load 5.00 kg, Temperature 266 [°] C | 11 g/10 min @Load 11.0 lb, Temperature 511 [°] F | ASTM D1238 |
| Melt Index of Compound | 10 g/10 min @Load 5.00 kg, Temperature 265 [°] C | 10 g/10 min @Load 11.0 lb, Temperature 509 [°] F | MVR [cm ³ /10 min]; ISO 1133 |

| Mechanical Properties | Metric | English | Comments |
|---------------------------|----------|----------|-----------------------------|
| Tensile Strength at Break | 50.0 MPa | 7250 psi | Type I, 5 mm/min; ASTM D638 |
| | 50.0 MPa | 7250 psi | 5 mm/min; ISO 527 |
| Tensile Strength, Yield | 55.0 MPa | 7980 psi | Type I, 5 mm/min; ASTM D638 |
| | 56.0 MPa | 8120 psi | 5 mm/min; ISO 527 |
| Elongation at Break | 8.0 % | 8.0 % | 5 mm/min; ISO 527 |
| | 10 % | 10 % | Type I, 5 mm/min; ASTM D638 |
| Elongation at Yield | 3.2 % | 3.2 % | Type I, 5 mm/min; ASTM D638 |
| | 3.2 % | 3.2 % | 5 mm/min; ISO 527 |
| Tensile Modulus | 4.30 GPa | 624 ksi | 1 mm/min; ISO 527 |
| | 4.40 GPa | 638 ksi | 5 mm/min; ASTM D638 |

| Mechanical Properties | Metric ^{Pa} | English ^{psi} | Comments ^{1.3 mm/min, 50 mm span; ASTM D790} |
|------------------------------|--------------------------|----------------------------|---|
| | 90.0 MPa | 13100 psi | 2 mm/min; ISO 178 |
| Flexural Modulus | 4.20 GPa | 609 ksi | 1.3 mm/min, 50 mm span; ASTM D790 |
| | 4.20 GPa | 609 ksi | 2 mm/min; ISO 178 |
| Izod Impact, Notched | 0.800 J/cm | 1.50 ft-lb/in | ASTM D256 |
| | 0.600 J/cm | 1.12 ft-lb/in | ASTM D256 |
| | @Temperature -30.0 °C | @Temperature -22.0 °F | |
| Izod Impact, Notched (ISO) | 8.00 kJ/m ² | 3.81 ft-lb/in ² | 80*10*4; ISO 180/1A |
| | 6.00 kJ/m ² | 2.86 ft-lb/in ² | 80*10*4; ISO 180/1A |
| | @Temperature -30.0 °C | @Temperature -22.0 °F | |
| Izod Impact, Unnotched (ISO) | 100 kJ/m ² | 47.6 ft-lb/in ² | 80*10*4; ISO 180/1U |
| | 80.0 kJ/m ² | 38.1 ft-lb/in ² | 80*10*4; ISO 180/1U |
| | @Temperature -30.0 °C | @Temperature -22.0 °F | |
| Charpy Impact, Notched | 0.600 J/cm ² | 2.86 ft-lb/in ² | Edgew 80*10*4 sp=62mm; ISO 179/1eA |
| Dart Drop, Total Energy | 45.0 J | 33.2 ft-lb | ASTM D3763 |
| | @Temperature 23.0 °C | @Temperature 73.4 °F | |

| Thermal Properties | Metric | English | Comments |
|---------------------------------|---|---|-------------|
| CTE, linear, Parallel to Flow | 43.0 $\mu\text{m}/\text{m}\cdot\text{°C}$ | 23.9 $\mu\text{in}/\text{in}\cdot\text{°F}$ | ASTM E 831 |
| | @Temperature -40.0 - 40.0 °C | @Temperature -40.0 - 104 °F | |
| | 48.0 $\mu\text{m}/\text{m}\cdot\text{°C}$ | 26.7 $\mu\text{in}/\text{in}\cdot\text{°F}$ | ISO 11359-2 |
| | @Temperature -30.0 - 80.0 °C | @Temperature -22.0 - 176 °F | |
| | 48.0 $\mu\text{m}/\text{m}\cdot\text{°C}$ | 26.7 $\mu\text{in}/\text{in}\cdot\text{°F}$ | ISO 11359-2 |
| | @Temperature 23.0 - 80.0 °C | @Temperature 73.4 - 176 °F | |
| CTE, linear, Transverse to Flow | 64.0 $\mu\text{m}/\text{m}\cdot\text{°C}$ | 35.6 $\mu\text{in}/\text{in}\cdot\text{°F}$ | ASTM E 831 |
| | @Temperature -40.0 - 40.0 °C | @Temperature -40.0 - 104 °F | |

| Thermal Properties | Metric | English | Comments |
|---|------------------------------|-----------------------------|----------------------------------|
| | @Temperature -30.0 - 80.0 °C | @Temperature -22.0 - 176 °F | ISO 11359-2 |
| | 68.0 µm/m-°C | 37.8 µin/in-°F | ISO 11359-2 |
| | @Temperature 23.0 - 80.0 °C | @Temperature 73.4 - 176 °F | |
| Deflection Temperature at 1.8 MPa (264 psi) | 112 °C | 234 °F | Flatw 80*10*4 sp=64mm; ISO 75/Af |
| | 112 °C | 234 °F | unannealed; ASTM D648 |
| | @Thickness 3.20 mm | @Thickness 0.126 in | |
| Vicat Softening Point | 138 °C | 280 °F | Rate B/50; ASTM D1525 |
| | 138 °C | 280 °F | Rate B/50; ISO 306 |
| | 140 °C | 284 °F | Rate B/120; ISO 306 |

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