

SABIC Innovative Plastics Xenoy® 1760T PBT+PC (Europe-Africa-Middle East)

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

Material Notes:

XENOY 1760T is developed as a easy flow material, for applications such as doorhandles and mirror housings. It is a 11% glass reinforced material with excellent strength and dimensional stability. This data was supplied by SABIC-IP for the Europe-Africa-Middle East region.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-Xenoy-1760T-PBTPC-Europe-Africa-Middle-East.php

| Physical Properties | Metric | English | Comments |
|------------------------------------|-----------------------------------------------------------------|-----------------------------------------------------------------|------------------------------------------------------|
| Density | 1.30 g/cc | 0.0470 lb/in ³ | ISO 1183 |
| Moisture Absorption at Equilibrium | 0.15 % | 0.15 % | 23 ^o C / 50% RH; ISO 62 |
| Water Absorption at Saturation | 0.50 % @Temperature 23.0 ^o C | 0.50 % @Temperature 73.4 ^o F | ISO 62 |
| Linear Mold Shrinkage, Flow | 0.0050 - 0.0090 cm/cm | 0.0050 - 0.0090 in/in | on tensile bar; SABIC Method |
| Melt Flow | 14 g/10 min @Load 5.00 kg, Temperature 250 ^o C | 14 g/10 min @Load 11.0 lb, Temperature 482 ^o F | [cm ³ /10 min] Melt Volume Rate; ISO 1133 |

| Mechanical Properties | Metric | English | Comments |
|----------------------------|----------------------------------------------------------------|----------------------------------------------------------------|---------------------|
| Hardness, Rockwell R | 113 | 113 | ISO 2039-2 |
| Hardness, H358/30 | 105 MPa | 15200 psi | ISO 2039-1 |
| Tensile Strength at Break | 90.0 MPa | 13100 psi | 5 mm/min; ISO 527 |
| Elongation at Break | 3.0 % | 3.0 % | 5 mm/min; ISO 527 |
| Tensile Modulus | 4.50 GPa | 653 ksi | 1 mm/min; ISO 527 |
| Flexural Strength | 140 MPa | 20300 psi | 2 mm/min; ISO 178 |
| Flexural Modulus | 4.00 GPa | 580 ksi | 2 mm/min; ISO 178 |
| Izod Impact, Notched (ISO) | 3.00 kJ/m ² @Temperature 23.0 ^o C | 1.43 ft-lb/in ² @Temperature 73.4 ^o F | 80*10*4; ISO 180/1A |
| | 3.00 kJ/m ² @Temperature 0.000 ^o C | 1.43 ft-lb/in ² @Temperature 32.0 ^o F | 80*10*4; ISO 180/1A |

| Mechanical Properties | Metric | English | Comments |
|------------------------------|------------------------------------------------------|---------------------------------------------------------|--------------------------------------------|
| | 30.0 kJ/m ² @Temperature -30.0 Â°C | 14.3 ft-lb/in ² @Temperature -22.0 Â°F | 80*10*4; ISO 180/1A |
| Izod Impact, Unnotched (ISO) | 30.0 kJ/m ² @Temperature 23.0 Â°C | 14.3 ft-lb/in ² @Temperature 73.4 Â°F | 80*10*4; ISO 180/1U |
| | 30.0 kJ/m ² @Temperature -30.0 Â°C | 14.3 ft-lb/in ² @Temperature -22.0 Â°F | 80*10*4; ISO 180/1U |
| Charpy Impact Unnotched | 3.50 J/cm ² @Temperature 23.0 Â°C | 16.7 ft-lb/in ² @Temperature 73.4 Â°F | Edgew 80*10*4 sp=62mm; ISO 179/1eU |
| | 3.50 J/cm ² @Temperature -30.0 Â°C | 16.7 ft-lb/in ² @Temperature -22.0 Â°F | Edgew 80*10*4 sp=62mm; ISO 179/1eU |
| Charpy Impact, Notched | 0.300 J/cm ² @Temperature -30.0 Â°C | 1.43 ft-lb/in ² @Temperature -22.0 Â°F | V-notch Edgew 80*10*4 sp=62mm; ISO 179/1eA |
| | 0.400 J/cm ² @Temperature 23.0 Â°C | 1.90 ft-lb/in ² @Temperature 73.4 Â°F | V-notch Edgew 80*10*4 sp=62mm; ISO 179/1eA |

| Thermal Properties | Metric | English | Comments |
|------------------------------------------------|---------------------------------------------------|----------------------------------------------------|------------------------------------|
| CTE, linear, Parallel to Flow | 40.0 Âµm/m-Â°C @Temperature 23.0 - 80.0 Â°C | 22.2 Âµin/in-Â°F @Temperature 73.4 - 176 Â°F | ISO 11359-2 |
| CTE, linear, Transverse to Flow | 110 Âµm/m-Â°C @Temperature 23.0 - 80.0 Â°C | 61.1 Âµin/in-Â°F @Temperature 73.4 - 176 Â°F | ISO 11359-2 |
| Thermal Conductivity | 0.190 W/m-K | 1.32 BTU-in/hr-ft ² - Â°F | ISO 8302 |
| Deflection Temperature at 0.46 MPa (66 psi) | 115 Â°C | 239 Â°F | Edgew 120*10*4 sp=100mm; ISO 75/Be |
| Deflection Temperature at 1.8 MPa (264 psi) | 105 Â°C | 221 Â°F | Edgew 120*10*4 sp=100mm; ISO 75/Ae |
| Vicat Softening Point | 130 Â°C | 266 Â°F | Rate B/120; ISO 306 |
| | 135 Â°C | 275 Â°F | Rate B/50; ISO 306 |

| Thermal Properties | Metric | English | Comments |
|--------------------|--------------------|----------------------|-----------|
| | @Thickness 1.50 mm | @Thickness 0.0591 in | IEC 60093 |

| Electrical Properties | Metric | English | Comments |
|-----------------------|-----------------------------------|-----------------------------------|---------------------|
| Volume Resistivity | $\geq 1.00 \times 10^{14}$ ohm-cm | $\geq 1.00 \times 10^{14}$ ohm-cm | IEC 60093 |
| Surface Resistance | $\geq 1.00 \times 10^{15}$ ohm | $\geq 1.00 \times 10^{15}$ ohm | ROA; IEC 60093 |
| Dielectric Constant | 3.1 | 3.1 | IEC 60250 |
| | @Frequency 1.00e+6 Hz | @Frequency 1.00e+6 Hz | |
| Dielectric Strength | 3.3 | 3.3 | IEC 60250 |
| | @Frequency 50.0 - 60.0 Hz | @Frequency 50.0 - 60.0 Hz | |
| Dielectric Strength | 17.0 kV/mm | 432 kV/in | in oil; IEC 60243-1 |
| | @Thickness 3.20 mm | @Thickness 0.126 in | |
| Dissipation Factor | 0.0020 | 0.0020 | IEC 60250 |
| | @Frequency 50.0 - 60.0 Hz | @Frequency 50.0 - 60.0 Hz | |
| Dissipation Factor | 0.020 | 0.020 | IEC 60250 |
| | @Frequency 1.00e+6 Hz | @Frequency 1.00e+6 Hz | |

| Descriptive Properties | Value | Comments |
|------------------------------------|--------|----------------|
| Ball Pressure Test, 75Å°C +/- 2Å°C | PASSES | IEC 60695-10-2 |

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