

## SABIC Innovative Plastics Xenoy® 6370 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 6370 is an impact modified semi-crystalline thermoplastic. blend with 30% glass fibre reinforcement offering toughness and ductility.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_SABIC-Innovative-Plastics-Xenoy-6370-PBTPC-Europe-Africa-Middle-East.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-Xenoy-6370-PBTPC-Europe-Africa-Middle-East.php)

| Physical Properties               | Metric                                               | English                                              | Comments                                |
|-----------------------------------|------------------------------------------------------|------------------------------------------------------|-----------------------------------------|
| Density                           | 1.44 g/cc                                            | 0.0520 lb/in <sup>3</sup>                            | ISO 1183                                |
| Moisture Absorption               | 0.150 %                                              | 0.150 %                                              | 23Â°C / 50% RH; ISO 62                  |
| Water Absorption at Saturation    | 0.50 %                                               | 0.50 %                                               | ISO 62                                  |
| Linear Mold Shrinkage, Flow       | 0.0030 - 0.0060 cm/cm                                | 0.0030 - 0.0060 in/in                                | on Tensile Bar; SABIC Method            |
| Linear Mold Shrinkage, Transverse | 0.0040 - 0.0080 cm/cm                                | 0.0040 - 0.0080 in/in                                | on Tensile Bar; SABIC Method            |
| Melt Index of Compound            | 12 g/10 min<br>@Load 5.00 kg,<br>Temperature 250 Â°C | 12 g/10 min<br>@Load 11.0 lb,<br>Temperature 482 Â°F | MVR [cm <sup>3</sup> /10 min]; ISO 1133 |

| Mechanical Properties        | Metric                                              | English                                                 | Comments            |
|------------------------------|-----------------------------------------------------|---------------------------------------------------------|---------------------|
| Hardness, Rockwell R         | 109                                                 | 109                                                     | ISO 2039-2          |
| Hardness, H358/30            | 100 MPa                                             | 14500 psi                                               | ISO 2039-1          |
| Tensile Strength at Break    | 105 MPa                                             | 15200 psi                                               | 5 mm/min; ISO 527   |
| Elongation at Break          | 2.9 %                                               | 2.9 %                                                   | 5 mm/min; ISO 527   |
| Tensile Modulus              | 8.50 GPa                                            | 1230 ksi                                                | 1 mm/min; ISO 527   |
| Flexural Strength            | 160 MPa                                             | 23200 psi                                               | 2 mm/min; ISO 178   |
| Flexural Modulus             | 7.75 GPa                                            | 1120 ksi                                                | 2 mm/min; ISO 178   |
| Izod Impact, Notched (ISO)   | 10.0 kJ/m <sup>2</sup>                              | 4.76 ft-lb/in <sup>2</sup>                              | 80*10*4; ISO 180/1A |
|                              | 6.00 kJ/m <sup>2</sup><br>@Temperature -30.0<br>Â°C | 2.86 ft-lb/in <sup>2</sup><br>@Temperature -22.0<br>Â°F | 80*10*4; ISO 180/1A |
| Izod Impact, Unnotched (ISO) | 44.0 kJ/m <sup>2</sup>                              | 20.9 ft-lb/in <sup>2</sup>                              | 80*10*4; ISO 180/1U |
|                              | 42.0 kJ/m <sup>2</sup>                              | 20.0 ft-lb/in <sup>2</sup>                              |                     |

| Mechanical Properties   | Metric<br>@ Temperature -30.0<br>Â°C     | English<br>@ Temperature -22.0<br>Â°F        | Comments<br>80*10*4 ISO 180/1U     |
|-------------------------|------------------------------------------|----------------------------------------------|------------------------------------|
| Charpy Impact Unnotched | 3.50 J/cmÂ²                              | 16.7 ft-lb/inÂ²                              | Edgew 80*10*4 sp=62mm; ISO 179/1eU |
|                         | 2.20 J/cmÂ²<br>@Temperature -30.0<br>Â°C | 10.5 ft-lb/inÂ²<br>@Temperature -22.0<br>Â°F | Edgew 80*10*4 sp=62mm; ISO 179/1eU |
| Charpy Impact, Notched  | 0.900 J/cmÂ²                             | 4.28 ft-lb/inÂ²                              | Edgew 80*10*4 sp=62mm; ISO 179/1eA |
|                         | 1.60 J/cmÂ²                              | 7.61 ft-lb/inÂ²                              | ISO 179/2C                         |
|                         | 1.00 J/cmÂ²<br>@Temperature -30.0<br>Â°C | 4.76 ft-lb/inÂ²<br>@Temperature -22.0<br>Â°F | Edgew 80*10*4 sp=62mm; ISO 179/1eA |

| Thermal Properties                             | Metric                                            | English                                            | Comments                           |
|------------------------------------------------|---------------------------------------------------|----------------------------------------------------|------------------------------------|
| CTE, linear, Parallel to Flow                  | 25.0 Âµm/m-Â°C<br>@Temperature 23.0 -<br>80.0 Â°C | 13.9 Âµin/in-Â°F<br>@Temperature 73.4 -<br>176 Â°F | ISO 11359-2                        |
| CTE, linear, Transverse to Flow                | 110 Âµm/m-Â°C<br>@Temperature 23.0 -<br>80.0 Â°C  | 61.1 Âµin/in-Â°F<br>@Temperature 73.4 -<br>176 Â°F | ISO 11359-2                        |
| Thermal Conductivity                           | 0.190 W/m-K                                       | 1.32 BTU-in/hr-ftÂ²-<br>Â°F                        | ISO 8302                           |
| Deflection Temperature at 0.46 MPa<br>(66 psi) | 205 Â°C                                           | 401 Â°F                                            | Edgew 120*10*4 sp=100mm; ISO 75/Be |
| Deflection Temperature at 1.8 MPa<br>(264 psi) | 140 Â°C                                           | 284 Â°F                                            | Edgew 120*10*4 sp=100mm; ISO 75/Ae |
| Vicat Softening Point                          | 148 Â°C                                           | 298 Â°F                                            | Rate B/50; ISO 306                 |
|                                                | 150 Â°C                                           | 302 Â°F                                            | Rate B/120; ISO 306                |
|                                                | 212 Â°C                                           | 414 Â°F                                            | Rate A/50; ISO 306                 |
| UL RTI, Electrical                             | 140 Â°C                                           | 284 Â°F                                            | UL 746B                            |
| UL RTI, Mechanical with Impact                 | 130 Â°C                                           | 266 Â°F                                            | UL 746B                            |
| UL RTI, Mechanical without Impact              | 140 Â°C                                           | 284 Â°F                                            | UL 746B                            |
| Flammability, UL94                             | HB<br>@Thickness 1.50 mm                          | HB<br>@Thickness 0.0591 in                         | UL 94                              |
|                                                | HB                                                | HB                                                 |                                    |

| Thermal Properties | Metric<br>@ Thickness 3.00 mm | English<br>@ Thickness 0.118 in | Comments       |
|--------------------|-------------------------------|---------------------------------|----------------|
| Glow Wire Test     | 750 Å°C<br>@Thickness 3.20 mm | 1380 Å°F<br>@Thickness 0.126 in | IEC 60695-2-12 |

| Electrical Properties      | Metric                              | English                             | Comments            |
|----------------------------|-------------------------------------|-------------------------------------|---------------------|
| Volume Resistivity         | >= 1.00e+14 ohm-cm                  | >= 1.00e+14 ohm-cm                  | IEC 60093           |
| Surface Resistance         | >= 1.00e+15 ohm                     | >= 1.00e+15 ohm                     | ROA; IEC 60093      |
| Dielectric Constant        | 3.5<br>@Frequency 1.00e+6 Hz        | 3.5<br>@Frequency 1.00e+6 Hz        | IEC 60250           |
|                            | 3.7<br>@Frequency 50.0 - 60.0 Hz    | 3.7<br>@Frequency 50.0 - 60.0 Hz    | IEC 60250           |
| Dielectric Strength        | 15.0 kV/mm<br>@Thickness 3.20 mm    | 381 kV/in<br>@Thickness 0.126 in    | in oil; IEC 60243-1 |
|                            | 21.0 kV/mm<br>@Thickness 1.60 mm    | 533 kV/in<br>@Thickness 0.0630 in   | in oil; IEC 60243-1 |
|                            | 25.0 kV/mm<br>@Thickness 0.800 mm   | 635 kV/in<br>@Thickness 0.0315 in   | in oil; IEC 60243-1 |
| Dissipation Factor         | 0.0020<br>@Frequency 50.0 - 60.0 Hz | 0.0020<br>@Frequency 50.0 - 60.0 Hz | IEC 60250           |
|                            | 0.020<br>@Frequency 1.00e+6 Hz      | 0.020<br>@Frequency 1.00e+6 Hz      | IEC 60250           |
| Comparative Tracking Index | >= 125 V                            | >= 125 V                            | IEC 60112           |
|                            | 300 V                               | 300 V                               | IEC 60112           |

| Descriptive Properties              | Value  | Comments       |
|-------------------------------------|--------|----------------|
| Ball Pressure Test, 125Å°C +/- 2Å°C | PASSES | IEC 60695-10-2 |

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