

SABIC XENOY™ PBT/PC 6370物性表

| 属性 | 典型值 | UNITS | 测试手段 |
|---------------------------------------------|---------|-------------------|----------------|
| MECHANICAL | | | |
| Tensile Stress, break, 5 mm/min | 105 | MPa | ISO 527 |
| Tensile Strain, break, 5 mm/min | 3 | % | ISO 527 |
| Tensile Modulus, 1 mm/min | 8500 | MPa | ISO 527 |
| Flexural Stress, break, 2 mm/min | 160 | MPa | ISO 178 |
| Flexural Modulus, 2 mm/min | 7750 | MPa | ISO 178 |
| Ball Indentation Hardness, H358/30 | 100 | MPa | ISO 2039-1 |
| Hardness, Rockwell R | 109 | - | ISO 2039-2 |
| IMPACT | | | |
| Izod Impact, unnotched 80*10*4 +23°C | 44 | kJ/m ² | ISO 180/1U |
| Izod Impact, unnotched 80*10*4 -30°C | 42 | kJ/m ² | ISO 180/1U |
| Izod Impact, notched 80*10*4 +23°C | 10 | kJ/m ² | ISO 180/1A |
| Izod Impact, notched 80*10*4 -30°C | 6 | kJ/m ² | ISO 180/1A |
| Charpy 23°C, V-notch Edgew 80*10*4 sp=62mm | 9 | kJ/m ² | ISO 179/1eA |
| Charpy Impact, notched, 23°C | 16 | kJ/m ² | ISO 179/2C |
| Charpy -30°C, V-notch Edgew 80*10*4 sp=62mm | 10 | kJ/m ² | ISO 179/1eA |
| Charpy 23°C, Unnotch Edgew 80*10*4 sp=62mm | 35 | kJ/m ² | ISO 179/1eU |
| Charpy -30°C, Unnotch Edgew 80*10*4 sp=62mm | 22 | kJ/m ² | ISO 179/1eU |
| THERMAL | | | |
| Thermal Conductivity | 0.19 | W/m-°C | ISO 8302 |
| CTE, 23°C to 80°C, flow | 2.5E-05 | 1/°C | ISO 11359-2 |
| CTE, 23°C to 80°C, xflow | 1.1E-04 | 1/°C | ISO 11359-2 |
| Ball Pressure Test, 125°C +/- 2°C | PASSES | - | IEC 60695-10-2 |
| Vicat Softening Temp, Rate A/50 | 212 | °C | ISO 306 |
| Vicat Softening Temp, Rate B/50 | 148 | °C | ISO 306 |
| Vicat Softening Temp, Rate B/120 | 150 | °C | ISO 306 |

| | | | |
|-----------------------------------------------------|---------------|-------------------------|--------------|
| HDT/Be, 0.45MPa Edgew 120*10*4 sp=100mm | 205 | °C | ISO 75/Be |
| HDT/Ae, 1.8 MPa Edgew 120*10*4 sp=100mm | 140 | °C | ISO 75/Ae |
| Relative Temp Index, Elec | 140 | °C | UL 746B |
| Relative Temp Index, Mech w/impact | 130 | °C | UL 746B |
| Relative Temp Index, Mech w/o impact | 140 | °C | UL 746B |
| PHYSICAL | | | |
| Mold Shrinkage on Tensile Bar, flow | 0.3-0.6 | % | SABIC method |
| Mold Shrinkage on Tensile Bar, xflow | 0.4-0.8 | % | SABIC method |
| Density | 1.44 | g/cm ³ | ISO 1183 |
| Water Absorption, (23°C/saturated) | 0.5 | % | ISO 62-1 |
| Moisture Absorption (23°C / 50% RH) | 0.15 | % | ISO 62 |
| Melt Volume Rate, MVR at 250°C/5.0 kg | 12 | cm ³ /10 min | ISO 1133 |
| ELECTRICAL | | | |
| Volume Resistivity | >1.E+14 | Ω.cm | IEC 60093 |
| Surface Resistivity, ROA | >1.E+15 | Ω | IEC 60093 |
| Dielectric Strength, in oil, 0.8 mm | 25 | kV/mm | IEC 60243-1 |
| Dielectric Strength, in oil, 1.6 mm | 21 | kV/mm | IEC 60243-1 |
| Dielectric Strength, in oil, 3.2 mm | 15 | kV/mm | IEC 60243-1 |
| Relative Permittivity, 1 MHz | 3.5 | - | IEC 60250 |
| Dissipation Factor, 50/60 Hz | 0.002 | - | IEC 60250 |
| Dissipation Factor, 1 MHz | 0.02 | - | IEC 60250 |
| Comparative Tracking Index | 300 | V | IEC 60112 |
| Comparative Tracking Index, M | 125 | V | IEC 60112 |
| Relative Permittivity, 50/60 Hz | 3.7 | - | IEC 60250 |
| FLAME CHARACTERISTICS | | | |
| UL Yellow Card Link | E45329-236739 | - | - |
| UL Recognized, 94HB Flame Class Rating | 1.5 | mm | UL 94 |
| UL Recognized, 94HB Flame Class Rating 2nd value | 3 | mm | UL 94 |

| | | | |
|--------------------------------------------------|---------|-----|----------------|
| Glow Wire Flammability Index 750°C, passes at | 3.2 | mm | IEC 60695-2-12 |
| Injection Molding | | | |
| Drying Temperature | 100-110 | °C | |
| Drying Time | 2-4 | Hrs | |
| Maximum Moisture Content | 0.02 | % | |
| Melt Temperature | 255-270 | °C | |
| Nozzle Temperature | 250-265 | °C | |
| Front - Zone 3 Temperature | 250-270 | °C | |
| Middle - Zone 2 Temperature | 240-265 | °C | |
| Rear - Zone 1 Temperature | 230-250 | °C | |
| Hopper Temperature | 40-60 | °C | |
| Mold Temperature | 60-100 | °C | |

此数据由我们从该材料的生产商处获得。我们尽最大努力确保此数据的准确性，但是我们对这些数据值不承担任何责任，并强烈建议在最终选料前，就数据值与材料供应商进行验证。