XENOY[™] Resin 6620 - Americas

Polycarbonate + PBT SABIC

Technical Data

Product Description

| PBT+PC, Unreinforced, impact modifie | ed thermoplastic alloy. Outstanding in | mpact at low temperature | |
|--------------------------------------|--|--|---|
| General | | | |
| Material Status | Commercial: Active | | |
| UL Yellow Card ¹ | • E121562-221088 | | |
| Search for UL Yellow Card | SABICXENOY™ Resin | | |
| Availability | Latin America | North America | |
| Uses | Construction Applications Electrical/Electronic Applications | Lawn and Garden Equipment Medical/Healthcare Applications | Outdoor Applications |
| Multi-Point Data | Elastic Modulus vs. Temperature (ASTM D4065) Flexural DMA (ASTM D5023) Instrumented Impact (Energy) (ASTM D3763) | Instrumented Impact (Load) (ASTM D3763) Tensile Creep (ASTM D2990) Tensile Fatigue | Tensile Stress vs. Strain (ASTM D638) |
| Also Available In | Asia Pacific | | |

| Physical | Nominal Value Unit | Test Method |
|--|------------------------|-----------------|
| Density / Specific Gravity | 1.20 g/cm ³ | ASTM D792 |
| Specific Volume | 0.830 cm³/g | ASTM D792 |
| Molding Shrinkage | | Internal Method |
| Across Flow : 3.20 mm | 1.6 to 1.8 % | |
| Flow : 3.20 mm | 1.5 to 2.0 % | |
| Water Absorption (24 hr, 23°C) | 0.080 % | ASTM D570 |
| Mechanical | Nominal Value Unit | Test Method |
| Tensile Strength ³ (Yield) | 43.0 MPa | ASTM D638 |
| Tensile Elongation ³ (Break) | 180 % | ASTM D638 |
| Flexural Modulus ⁴ (50.0 mm Span) | 1720 MPa | ASTM D790 |
| Flexural Strength ⁴ (Yield, 50.0 mm Span) | 64.0 MPa | ASTM D790 |
| Impact | Nominal Value Unit | Test Method |
| Notched Izod Impact | | ASTM D256 |
| -30°C | 670 J/m | |
| 23°C | 850 J/m | |
| Unnotched Izod Impact (23°C) | 1600 J/m | ASTM D4812 |
| Gardner Impact (23°C) | • 54.0 • 54.0 J | ASTM D3029 |
| Hardness | Nominal Value Unit | Test Method |
| Rockwell Hardness (R-Scale) | 108 | ASTM D785 |
| Thermal | Nominal Value Unit | Test Method |
| Deflection Temperature Under Load | | ASTM D648 |
| 0.45 MPa, Unannealed, 3.20 mm | 93.0 °C | |
| 0.45 MPa, Unannealed, 6.40 mm | 98.0 °C | |
| 1.8 MPa, Unannealed, 3.20 mm | 53.0 °C | |
| 1.8 MPa, Unannealed, 6.40 mm | 60.0 °C | |



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| Thormal | Nominal Value Unit | Test Method |
|--|----------------------|-------------|
| | Nominal value onit | |
| | | ASTM E831 |
| Flow : -40 to 40°C | 9.4E-5 cm/cm/°C | |
| FIOW : 60 to 138°C | 1.0E-4 cm/cm/°C | |
| Iransverse : -40 to 40°C | 9.8E-5 cm/cm/°C | |
| RTI Elec | 75.0 °C | UL 746B |
| RTI Imp | 75.0 °C | UL 746B |
| RTI Str | 75.0 °C | UL 746B |
| Electrical | Nominal Value Unit | Test Method |
| Volume Resistivity | 5.5E+16 ohms∙cm | ASTM D257 |
| Dielectric Strength | | ASTM D149 |
| 1.60 mm, in Oil | 28 kV/mm | |
| 3.20 mm, in Air | 19 kV/mm | |
| 3.20 mm, in Oil | 19 kV/mm | |
| Dielectric Constant | | ASTM D150 |
| 100 Hz | 3.10 | |
| 100 kHz | 3.00 | |
| 1 MHz | 3.00 | |
| Dissipation Factor | | ASTM D150 |
| 100 Hz | 2.0E-3 | |
| 100 kHz | 0.020 | |
| 1 MHz | 0.020 | |
| Arc Resistance ⁵ | PLC 5 | ASTM D495 |
| Comparative Tracking Index (CTI) | PLC 0 | UL 746A |
| High Amp Arc Ignition (HAI) ⁶ | PLC 0 | UL 746A |
| High Voltage Arc Resistance to Ignition (HVAR) | PLC 1 | UL 746A |
| Hot-wire Ignition (HWI) | PLC 3 | UL 746A |
| Flammability | Nominal Value Unit | Test Method |
| Flame Rating (1.5 mm) | HB | UL 94 |
| Injection | Nominal Value Unit | |
| Drying Temperature | 105 to 115 °C | |
| Drying Time | 2.0 to 4.0 hr | |
| Suggested Max Moisture | 0.020 % | |
| Suggested Shot Size | 50 to 80 % | |
| Rear Temperature | 225 to 245 °C | |
| Middle Temperature | 230 to 250 °C | |
| Front Temperature | 240 to 260 °C | |
| Nozzle Temperature | 240 to 260 °C | |
| Processing (Melt) Temp | 240 to 260 °C | |
| Mold Temperature | 50 to 80 °C | |
| Back Pressure | e 0.200 to 0.300 MPa | |
| Vent Depth | 0.013 to 0.020 mm | |

Injection Notes

• Drying Time (Cumulative): 6 hr



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Notes

¹ A UL Yellow Card contains UL-verified flammability and electrical characteristics. UL Prospector continually works to link Yellow Cards to individual plastic materials in Prospector, however this list may not include all of the appropriate links. It is important that you verify the association between these Yellow Cards and the plastic material found in Prospector. For a complete listing of Yellow Cards, visit the UL Yellow Card Search.

- ² Typical properties: these are not to be construed as specifications.
- ³ Type I, 50 mm/min
- ⁴ 1.3 mm/min
- ⁵ Tungsten Electrode
- ⁶ Surface



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