

Xenoy* Resin 1731

Americas: COMMERCIAL

بیتایک عام*له*

Impact/chemical resistant. UV-Stabilized. Excellent physical property retention in automotive exteriors and OVAD.

Property

| TYPICAL PROPERTIES ⁽¹⁾ | | | |
|--|-----------|------------|---------------------------|
| MECHANICAL | Value | Unit | Standard |
| Tensile Stress, yld, Type I, 50 mm/min | 61 | MPa | ASTM D 638 |
| Tensile Strain, brk, Type I, 50 mm/min | 120 | % | ASTM D 638 |
| Flexural Stress, yld, 1.3 mm/min, 50 mm span | 93 | MPa | ASTM D 790 |
| Flexural Modulus, 1.3 mm/min, 50 mm span | 2340 | MPa | ASTM D 790 |
| ІМРАСТ | Value | Unit | Standard |
| Izod Impact, notched, 23°C | 667 | J/m | ASTM D 256 |
| Izod Impact, notched, -30°C | 106 | J/m | ASTM D 256 |
| Izod Impact, notched, 23°C, 6.4mm | 160 | J/m | ASTM D 256 |
| Instrumented Impact Total Energy, 23°C | 61 | J | ASTM D 3763 |
| Instrumented Impact Total Energy, -30°C | 61 | J | ASTM D 3763 |
| THERMAL | Value | Unit | Standard |
| HDT, 0.45 MPa, 6.4 mm, unannealed | 115 | °C | ASTM D 648 |
| HDT, 1.82 MPa, 6.4 mm, unannealed | 107 | °C | ASTM D 648 |
| CTE, -40°C to 95°C, flow | 8.28E-05 | 1/°C | ASTM E 831 |
| Relative Temp Index, Elec | 75 | °C | UL 746B |
| Relative Temp Index, Mech w/impact | 75 | °C | UL 746B |
| Relative Temp Index, Mech w/o impact | 75 | °C | UL 746B |
| PHYSICAL | Value | Unit | Standard |
| Specific Gravity | 1.22 | - | ASTM D 792 |
| Specific Volume | 0.82 | cm³/g | ASTM D 792 |
| Mold Shrinkage, flow, 3.2 mm | 0.5 - 0.7 | % | SABIC Method |
| Mold Shrinkage, xflow, 3.2 mm | 0.6 - 0.8 | % | SABIC Method |
| ELECTRICAL | Value | Unit | Standard |
| Arc Resistance, Tungsten {PLC} | 5 | PLC Code | ASTM D 495 |
| Hot Wire Ignition {PLC) | 2 | PLC Code | UL 746A |
| High Voltage Arc Track Rate {PLC} | 2 | PLC Code | UL 746A |
| High Ampere Arc Ign, surface {PLC} | 0 | PLC Code | UL 746A |
| Comparative Tracking Index (UL) {PLC} | 2 | PLC Code | UL 746A |
| FLAME CHARACTERISTICS | Value | Unit | Standard |
| UL Recognized, 94HB Flame Class Rating (3) | 1.49 | mm | UL 94 |
| | | Source GMI | D, last updated:01/05/200 |

Processing

| Parameter | | |
|--------------------------|-------|------|
| Injection Molding | Value | Unit |
| Drying Temperature | 110 | C° |
| Drying Time | 4 - 6 | hrs |
| Drying Time (Cumulative) | 8 | hrs |
| Maximum Moisture Content | 0.02 | % |

| Melt Temperature | 260 - 275 | °C |
|------------------------------|--------------|-----|
| Nozzle Temperature | 255 - 270 | °C |
| Front - Zone 3 Temperature | 255 - 275 | °C |
| Middle - Zone 2 Temperature | 250 - 270 | °C |
| Rear - Zone 1 Temperature | 245 - 265 | °C |
| Mold Temperature | 65 - 90 | °C |
| Back Pressure | 0.3 - 0.7 | MPa |
| Screw Speed | 50 - 80 | rpm |
| Shot to Cylinder Size | 50 - 80 | % |
| Vent Depth | 0.013 - 0.02 | mm |
| October 2000 last un data de | | |

Source GMD, last updated:01/05/2000

THESE PROPERTY VALUES ARE NOT INTENDED FOR SPECIFICATION PURPOSES.

PLEASE CHECK WITH YOUR (LOCAL SALES OFFICE) FOR AVAILABILITY IN YOUR REGION

(1) Typical values only. Variations within normal tolerances are possible for various colors. All values are measured after at least 48 hours storage at 23°C/50% relative humidity. All properties, except the melt volume and melt flow rates, are measured on injection molded samples. All samples tested under ISO test standards are prepared according to ISO 294.

(2) Only typical data for selection purposes. Not to be used for part or tool design.

(3) This rating is not intended to reflect hazards presented by this or any other material under actual fire conditions.

(4) Internal measurements according to UL standards.

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