



Xenoy* Resin 9159U

Asia Pacific: COMMERCIAL

High heat, high impact polyester/polycarbonate alloy.

| TYPICAL PROPERTIES ¹ | TYPICAL VALUE | UNIT | STANDARD |
|--|---------------|------|--------------|
| MECHANICAL | | | |
| Tensile Stress, yld, Type I, 50 mm/min | 55 | MPa | ASTM D 638 |
| Tensile Strain, brk, Type I, 50 mm/min | 100 | % | ASTM D 638 |
| Flexural Stress, yld, 1.3 mm/min, 50 mm span | 89 | MPa | ASTM D 790 |
| Flexural Modulus, 1.3 mm/min, 50 mm span | 2240 | MPa | ASTM D 790 |
| IMPACT | | | |
| Izod Impact, notched, 23°C | 747 | J/m | ASTM D 256 |
| THERMAL | | | |
| HDT, 1.82 MPa, 3.2mm, unannealed | 110 | °C | ASTM D 648 |
| HDT, 1.82 MPa, 6.4 mm, unannealed | 121 | °C | ASTM D 648 |
| CTE, -40°C to 60°C, flow | 9.72E-05 | 1/°C | ASTM E 831 |
| PHYSICAL | | | |
| Specific Gravity | 1.22 | - | ASTM D 792 |
| Water Absorption, 24 hours | 0.14 | % | ASTM D 570 |
| Mold Shrinkage, flow, 3.2 mm | 0.6 - 0.9 | % | SABIC Method |

1) Typical values only. Variations within normal tolerances are possible for various colours. All values are measured at least after 48 hours storage at 23°C/50% relative humidity.
All properties, except the melt volume rate are measured on injection moulded samples.
All samples are prepared according to ISO 294.

2) Only typical data for material selection purpose. 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) Own measurement according to UL.





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| PROCESSING PARAMETERS | TYPICAL VALUE | UNIT |
|--------------------------|---------------|------|
| Injection Molding | | |
| Drying Temperature | 120 | °C |
| Drying Time | 3 - 6 | hrs |
| Drying Time (Cumulative) | 12 | hrs |
| Melt Temperature | 255 - 275 | °C |
| Mold Temperature | 60 - 80 | °C |

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