

Xenoy* Resin 5230 Americas: COMMERCIAL

Unreinforced PBT+PC alloy. Excellent impact/chemical resistance and dimensional stability.

| TYPICAL PROPERTIES 1 | TYPICAL VALUE | UNIT | STANDARD |
|--|---------------|--------|--------------|
| MECHANICAL | | | |
| Tensile Stress, yld, Type I, 50 mm/min | 54 | MPa | ASTM D 638 |
| Tensile Strain, brk, Type I, 50 mm/min | 110 | % | ASTM D 638 |
| Flexural Stress, yld, 1.3 mm/min, 50 mm span | 85 | MPa | ASTM D 790 |
| Flexural Modulus, 1.3 mm/min, 50 mm span | 2130 | MPa | ASTM D 790 |
| IMPACT | | | |
| Izod Impact, notched, 23°C | 640 | J/m | ASTM D 256 |
| Izod Impact, notched, -30°C | 213 | J/m | ASTM D 256 |
| Izod Impact, notched, -40°C | 170 | J/m | ASTM D 256 |
| Instrumented Impact Energy @ peak, 23°C | 50 | J | ASTM D 3763 |
| Instrumented Impact Energy @ peak, -40°C | 56 | J | ASTM D 3763 |
| THERMAL | | | |
| HDT, 0.45 MPa, 6.4 mm, unannealed | 115 | °C | ASTM D 648 |
| HDT, 1.82 MPa, 6.4 mm, unannealed | 96 | °C | ASTM D 648 |
| 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 | | | |
| Specific Gravity | 1.22 | - | ASTM D 792 |
| Specific Volume | 0.82 | cm³/g | ASTM D 792 |
| Water Absorption, 24 hours | 0.12 | % | ASTM D 570 |
| Mold Shrinkage, flow, 3.2 mm | 0.6 - 0.9 | % | SABIC Method |
| ELECTRICAL | | | |
| Volume Resistivity | 5.3E+16 | Ohm-cm | ASTM D 257 |
| Dielectric Strength, in air, 1.6 mm | 27.9 | kV/mm | ASTM D 149 |
| Dielectric Strength, in air, 3.2 mm | 18.3 | kV/mm | ASTM D 149 |

Typical values only. Variations within normal tolerances are possible for variose colours. All values are measured at least after 48 hours storage at 230C/50% relative humidity.
All properties, expect 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 this or any other material under actual fire conditions.
4) Own measurement according to UL.

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| TYPICAL PROPERTIES ¹ | TYPICAL VALUE | UNIT | STANDARD |
|--|---------------|------|------------|
| ELECTRICAL | | | |
| Relative Permittivity, 100 Hz | 3.04 | - | ASTM D 150 |
| Relative Permittivity, 1 MHz | 3.14 | - | ASTM D 150 |
| Dissipation Factor, 100 Hz | 0.002 | - | ASTM D 150 |
| Dissipation Factor, 1 MHz | 0.03 | - | ASTM D 150 |
| FLAME CHARACTERISTICS | | | |
| UL Recognized, 94HB Flame Class Rating (3) | 1.49 | mm | UL 94 |

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Source, GMD, Last Update:10/31/2000









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| TYPICAL VALUE | UNIT | |
|---------------|--|--|
| | | |
| 110 | S° | |
| 4 - 6 | hrs | |
| 8 | hrs | |
| 0.02 | % | |
| 260 - 275 | S° | |
| 255 - 270 | S° | |
| 255 - 275 | C° | |
| 250 - 270 | C° | |
| 245 - 265 | °C | |
| 65 - 90 | °C | |
| 0.3 - 0.7 | MPa | |
| 50 - 80 | rpm | |
| 50 - 80 | % | |
| 0.013 - 0.02 | mm | |
| | 110 4 - 6 8 0.02 260 - 275 255 - 270 255 - 275 250 - 270 245 - 265 65 - 90 0.3 - 0.7 50 - 80 50 - 80 | |

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