

DuPont™ Zytel®

nylon resin

Zytel® 70G33GRA BK350

Zytel® 70G33GRA is a 33% glass fiber reinforced, heat stabilized, lubricated polyamide 66 for injection molding. It is well suited for low wear, low friction applications.

| Property | Test Method | Units | Value | |
|-----------------------------------|----------------|--|--------------|-------------|
| | | | DAM | 50%RH |
| Identification | | | | |
| Resin Identification | ISO 1043 | | PA66-GF33C | |
| Part Marking Code | ISO 11469 | | >PA66-GF33C< | |
| Mechanical | | | | |
| Stress at Break | ISO 527 | MPa (kpsi) | 190 (27.5) | 135 (19.6) |
| Strain at Break | ISO 527 | % | 2.5 | 4 |
| Tensile Modulus | ISO 527 | MPa (kpsi) | 12500 (1810) | 8500 (1230) |
| Notched Charpy Impact Strength | ISO 179/1eA | kJ/m ² | 12 | 16 |
| Unnotched Charpy Impact Strength | ISO 179/1eU | kJ/m ² | 80 | 90 |
| Thermal | | | | |
| Deflection Temperature 0.45MPa | ISO 75-1/-2 | °C (°F) | 256 (493) | |
| 1.80MPa | | | 248 (478) | |
| Melting Temperature 10°C/min | ISO 11357-1/-3 | °C (°F) | 256 (493) | |
| Other | | | | |
| Density | ISO 1183 | kg/m ³ (g/cm ³) | 1450 (1.45) | |
| Molding Shrinkage | ISO 294-4 | % | | |
| Normal, 2.0mm | | | 0.8 | |
| Parallel, 2.0mm | | | 0.2 | |

Contact DuPont for Material Safety Data Sheet, general guides and/or additional information about ventilation, handling, purging, drying, etc.
 ISO Mechanical properties measured at 4.0mm, ISO Electrical properties measured at 2.0mm, and all ASTM properties measured at 3.2mm.
 Test temperatures are 23°C unless otherwise stated.

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| Property | Test Method | Units | Value | |
|---------------------------------|-------------|---------|-------------------|-------|
| | | | DAM | 50%RH |
| Processing | | | | |
| Melt Temperature Range | | °C (°F) | 285-305 (545-580) | |
| Melt Temperature Optimum | | °C (°F) | 295 (565) | |
| Mold Temperature Range | | °C (°F) | 70-120 (160-250) | |
| Mold Temperature Optimum | | °C (°F) | 100 (210) | |
| Drying Time, Dehumidified Dryer | | h | 2-4 | |
| Drying Temperature | | °C (°F) | 80 (175) | |
| Processing Moisture Content | | % | <0.20 | |

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