

Zytel® 74G33J NC010

NYLON RESIN

DuPont Mobility & Materials

PROSPECTOR®

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Technical Data

Product Description

33% Glass Reinforced Polyamide 66 + Polyamide 6

General

| | |
|-------------------------------|---|
| Material Status | • Commercial: Active |
| UL Yellow Card ¹ | • E41938-234536 |
| Search for UL Yellow Card | • DuPont Mobility & Materials • Zytel® |
| Availability | • Asia Pacific |
| Filler / Reinforcement | • Glass Fiber, 33% Filler by Weight |
| RoHS Compliance | • Contact Manufacturer |
| Part Marking Code (ISO 11469) | • >PA66+PA6-GF33< |
| Resin ID (ISO 1043) | • PA66+PA6-GF33 |
| ISO Designation | • ISO 16396-(PA66+PA6),GF33,M1GN,S14-100 |

| Physical | Dry | Conditioned | Unit | Test Method |
|-------------------|------|-------------|-------------------|-------------|
| Density | 1.39 | -- | g/cm ³ | ISO 1183 |
| Molding Shrinkage | | | | ISO 294-4 |
| Across Flow | 0.80 | -- | % | |
| Flow | 0.20 | -- | % | |

| Mechanical | Dry | Conditioned | Unit | Test Method |
|------------------------|-------|-------------|------|-------------|
| Tensile Modulus | 10000 | -- | MPa | ISO 527-1 |
| Tensile Stress (Break) | 185 | -- | MPa | ISO 527-2 |
| Tensile Strain (Break) | 3.5 | -- | % | ISO 527-2 |
| Flexural Modulus | -- | 5000 | MPa | ISO 178 |
| Poisson's Ratio | 0.34 | -- | | |

| Impact | Dry | Conditioned | Unit | Test Method |
|---|-----|-------------|-------------------|-------------|
| Charpy Notched Impact Strength (23°C) | 14 | -- | kJ/m ² | ISO 179/1eA |
| Charpy Unnotched Impact Strength (23°C) | 95 | -- | kJ/m ² | ISO 179/1eU |

| Thermal | Dry | Conditioned | Unit | Test Method |
|--|-----|-------------|------|-------------|
| Deflection Temperature Under Load 1.8 MPa, Unannealed | 220 | -- | °C | ISO 75-2/A |
| Melting Temperature ³ | 250 | -- | °C | ISO 11357-3 |

| Flammability | Dry | Conditioned | Unit | Test Method |
|-------------------------------------|------|-------------|--------|----------------------------------|
| Burning Rate ⁴ (1.00 mm) | < 80 | -- | mm/min | ISO 3795 |
| Flame Rating | | | | UL 94 IEC 60695-11-10, -20 |
| 0.8 mm | HB | -- | | |
| 1.5 mm | HB | -- | | |
| FMVSS Flammability | B | -- | | FMVSS 302 |

| Fill Analysis | Dry | Conditioned | Unit |
|----------------------|-----|-------------|------|
| Ejection Temperature | 210 | -- | °C |

| Injection | Dry Unit |
|-------------------------------|-----------------|
| Drying Temperature | 80 °C |
| Drying Time - Desiccant Dryer | 2.0 to 4.0 hr |
| Suggested Max Moisture | < 0.20 % |
| Processing (Melt) Temp | 280 to 300 °C |
| Melt Temperature, Optimum | 290 °C |
| Mold Temperature | 70 to 120 °C |
| Mold Temperature, Optimum | 100 °C |
| Holding Pressure | 50.0 to 100 MPa |



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| Injection | Dry Unit |
|--------------------------------|-----------|
| Drying Recommended | yes |
| Hold Pressure Time | 3.00 s/mm |
| Maximum Screw Tangential Speed | 12 m/min |

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 10°C/min

⁴ FMVSS 302



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Where to Buy

Supplier

DuPont Mobility & Materials

Wilmington, Wilmington USA

Telephone: 302-999-4592

Web: <http://plastics.dupont.com/>

Distributor

Please contact the supplier to find a distributor for Zytel® 74G33J NC010

