

Nypol® PA A3 G25 FR PRTA011 NR410

Polyamide 66

Petropol Industry and Trade of Polymers LTDA

Message:

Polyamide 6.6 in black color reinforced with 25% of fiberglass, resistance to hydrolysis and UV. Good set of thermal properties, electrical and mechanical. Ideal for injection molding.

| General Information | | | | |
|---|-------------|----------------------------------|-------------------|-------------|
| Filler / Reinforcement | | Glass Fiber,25% Filler by Weight | | |
| Features | | Good Electrical Properties | | |
| | | Good UV Resistance | | |
| | | Hydrolysis Resistant | | |
| Appearance | | Black | | |
| Processing Method | | Injection Molding | | |
| Resin ID (ISO 1043) | | >PA 66 GF25< | | |
| Physical | Dry | Conditioned | Unit | Test Method |
| Specific Gravity | 1.56 | -- | g/cm ³ | ASTM D792 |
| Molding Shrinkage - Flow | 0.40 | -- | % | ASTM D955 |
| Water Absorption (24 hr) | 0.50 | -- | % | ASTM D570 |
| Mechanical | Dry | Conditioned | Unit | Test Method |
| Tensile Strength | 169 | 134 | MPa | ASTM D638 |
| Tensile Elongation (Break) | 2.5 | 4.0 | % | ASTM D638 |
| Flexural Modulus | 8960 | 6900 | MPa | ASTM D790 |
| Flexural Strength | 340 | -- | MPa | ASTM D790 |
| Impact | Dry | Conditioned | Unit | Test Method |
| Notched Izod Impact | 100 | 110 | J/m | ASTM D256 |
| Thermal | Dry | Conditioned | Unit | Test Method |
| Deflection Temperature Under Load (1.8 MPa, Unannealed) | 235 | -- | °C | ASTM D648 |
| Peak Melting Temperature | 250 to 265 | -- | °C | ASTM D2117 |
| Flammability | Dry | Conditioned | Test Method | |
| Flame Rating | V-0 | -- | UL 94 | |
| Injection | Dry | Unit | | |
| Drying Temperature | 90.0 | | °C | |
| Drying Time | 3.0 | | hr | |
| Suggested Max Moisture | 0.020 | | % | |
| Processing (Melt) Temp | 270 to 290 | | °C | |
| Mold Temperature | 65.0 to 120 | | °C | |

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