

Nypol® PA B3 HL UV PRTA011 NT340

Polyamide 6

Petropol Industry and Trade of Polymers LTDA

Message:

Polyamide 6 in black color, lubricated, with UV protection, good set of thermal properties, electrical and mechanical. Ideal for injection molding.

| General Information | | | | |
|---|--------------|----------------------------|-------------------|-------------------------|
| Features | | Good Electrical Properties | | |
| | | Good UV Resistance | | |
| Appearance | | Black | | |
| Processing Method | | Injection Molding | | |
| Resin ID (ISO 1043) | | >PA 6< | | |
| Physical | Dry | Conditioned | Unit | Test Method |
| Specific Gravity | 1.13 to 1.15 | -- | g/cm ³ | ASTM D792 |
| Molding Shrinkage - Flow | 1.0 to 1.5 | -- | % | ASTM D955 |
| Water Absorption (24 hr) | 1.7 | -- | % | ASTM D570 |
| Mechanical | Dry | Conditioned | Unit | Test Method |
| Tensile Strength | | | | ASTM D638 |
| Break | 40.0 | 110 | MPa | |
| -- | 70.0 | 60.0 | MPa | |
| Flexural Modulus | 3000 | 1500 | MPa | ASTM D790 |
| Flexural Strength | 100 | 50.0 | MPa | ASTM D790 |
| Impact | Dry | Conditioned | Unit | Test Method |
| Notched Izod Impact | 60 | 90 | J/m | ASTM D256 |
| Thermal | Dry | Conditioned | Unit | Test Method |
| Deflection Temperature Under Load (1.8 MPa, Unannealed) | 70.0 | -- | °C | ASTM D648 |
| Vicat Softening Temperature | 205 | -- | °C | ASTM D1525 ¹ |
| Peak Melting Temperature | 215 to 220 | -- | °C | ASTM D2117 |
| Injection | Dry | Unit | | |
| Drying Temperature | 90.0 | | °C | |
| Drying Time | 2.0 | | hr | |
| Processing (Melt) Temp | 220 to 240 | | °C | |
| Mold Temperature | 40.0 to 80.0 | | °C | |
| NOTE | | | | |

1. Rate A (50°C/h)

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