

Nypol® PA B3 HL UV PRTA011 NT358

Polyamide 6

Petropol Industry and Trade of Polymers LTDA

Message:

Polyamide 6 black, with good lubricity, low viscosity ideal for injection molding, good set of thermal, electrical, and mechanical properties.

| General Information | | | | |
|---|-----------------------|----------------------------|-------------------|-------------|
| Features | | Good Electrical Properties | | |
| | | Low Viscosity | | |
| Appearance | | Black | | |
| Processing Method | | Injection Molding | | |
| Physical | Dry | Conditioned | Unit | Test Method |
| Density | 1.13 to 1.15 | -- | g/cm ³ | ISO 1183 |
| Molding Shrinkage | 1.0 to 1.5 | -- | % | ISO 294-4 |
| Mechanical | Dry | Conditioned | Unit | Test Method |
| Tensile Stress (Yield) | 83.0 | 55.0 | MPa | ISO 527-2 |
| Tensile Strain (Break) | 35 | > 60 | % | ISO 527-2 |
| Flexural Modulus | 3000 | 1200 | MPa | ISO 178 |
| Impact | Dry | Conditioned | Unit | Test Method |
| Notched Izod Impact Strength | 5.7 kJ/m ² | No Break | | ISO 180/1A |
| Thermal | Dry | Conditioned | Unit | Test Method |
| Heat Deflection Temperature (1.8 MPa, Unannealed) | 68.0 | -- | °C | ISO 75-2/A |
| Melting Temperature (DSC) | 215 to 220 | -- | °C | ISO 3146 |
| 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 | |

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