

Nypol® PA A3 HS PRTA011 NR404

Polyamide 66

Petropol Industry and Trade of Polymers LTDA

Message:

Nylon 6.6 in black color, thermally stable (HS) with good UV resistance. Good set of mechanical properties, high tenacity and elongation, good set of thermal properties. Ideal for injection molding.

| General Information | | | |
|---|--------------------|-------------------|----------------|
| Additive | Heat Stabilizer | | |
| Features | Good UV Resistance | | |
| | Heat Stabilized | | |
| | High Elongation | | |
| Appearance | Black | | |
| Processing Method | Injection Molding | | |
| Resin ID (ISO 1043) | >PA 66< | | |
| Physical | Nominal Value | Unit | Test Method |
| Specific Gravity | 1.14 | g/cm ³ | ASTM D792 |
| Molding Shrinkage - Flow | 1.5 to 2.0 | % | ASTM D955 |
| Water Absorption (Equilibrium) | 1.3 | % | ASTM D570 |
| Relative Viscosity | 35.0 to 45.0 | | |
| Hardness | Nominal Value | Unit | Test Method |
| Rockwell Hardness (R-Scale) | 120 | | ASTM D785 |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Strength | 85.0 | MPa | ASTM D638 |
| Tensile Elongation (Break) | 30 | % | ASTM D638 |
| Flexural Modulus | 2950 | MPa | ASTM D790 |
| Flexural Strength | 100 | MPa | ASTM D790 |
| Impact | Nominal Value | Unit | Test Method |
| Notched Izod Impact | 50 | J/m | ASTM D256 |
| Thermal | Nominal Value | Unit | Test Method |
| Deflection Temperature Under Load (1.8 MPa, Unannealed) | 70.0 | °C | ASTM D648 |
| Melting Temperature | 250 to 265 | °C | ASTM D2117 |
| Electrical | Nominal Value | Unit | Test Method |
| Volume Resistivity | 1.0E+14 | ohms · cm | ASTM D257 |
| Flammability | Nominal Value | Unit | Test Method |
| Flame Rating | HB | | UL 94 |
| Glow Wire Flammability Index | 850 | °C | IEC 60695-2-12 |
| Injection | Nominal Value | Unit | |
| Drying Temperature | 90.0 | °C | |

| | | |
|------------------------|-------------|----|
| Drying Time | 3.0 | hr |
| Suggested Max Moisture | 0.20 | % |
| Processing (Melt) Temp | 260 to 280 | °C |
| Mold Temperature | 70.0 to 100 | °C |

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