

Petrotene® PP A3 G40 NTLA010 PH306

Polypropylene

Petropol Industry and Trade of Polymers LTDA

Message:

Natural polypropylene with 40% fiberglass, ideal for injection molding, resistant to oil, grease and many solvents, has a high tensile strength and higher HDT, and excellent dimensional stability.

| General Information | | | |
|-----------------------------------|----------------------------------|-------------------|-------------------------|
| Filler / Reinforcement | Glass Fiber,40% Filler by Weight | | |
| Features | Good Dimensional Stability | | |
| | Grease Resistant | | |
| | High Tensile Strength | | |
| | Oil Resistant | | |
| | Solvent Resistant | | |
| Appearance | Natural Color | | |
| Processing Method | Injection Molding | | |
| Resin ID (ISO 1043) | >PP GF40< | | |
| Physical | Nominal Value | Unit | Test Method |
| Specific Gravity | 1.23 | g/cm ³ | ASTM D792 |
| Melt Mass-Flow Rate (MFR) | 7.0 to 15 | g/10 min | ASTM D1238 |
| Molding Shrinkage - Flow | 0.30 to 0.40 | % | ASTM D955 |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Stress (Break) | 90.0 | MPa | ISO 527-2 |
| Flexural Modulus | 6900 | MPa | ISO 178 |
| Flexural Stress | 120 | MPa | ISO 178 |
| Impact | Nominal Value | Unit | Test Method |
| Notched Izod Impact Strength | 8.0 | kJ/m ² | ISO 180/1A |
| Thermal | Nominal Value | Unit | Test Method |
| Deflection Temperature Under Load | | | ASTM D648 |
| 0.45 MPa, Unannealed | 130 | °C | |
| 1.8 MPa, Unannealed | 155 | °C | |
| Vicat Softening Temperature | 140 | °C | ASTM D1525 ¹ |
| Electrical | Nominal Value | Unit | Test Method |
| Dielectric Strength | 40 | kV/mm | ASTM D149 |
| Dissipation Factor (1 kHz) | 1.0E-3 | | ASTM D150 |
| Flammability | Nominal Value | Unit | Test Method |
| Flame Rating | HB | | UL 94 |
| Injection | Nominal Value | Unit | |
| Drying Temperature | 80.0 | °C | |

| | | |
|------------------------|--------------|----|
| Drying Time | 3.0 | hr |
| Processing (Melt) Temp | 190 to 230 | °C |
| Mold Temperature | 60.0 to 80.0 | °C |

NOTE

1. Rate A (50°C/h), Loading 1 (10 N)

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