

Petrotene® PP A3 G20 BRC0001 PH321

Polypropylene

Petropol Industry and Trade of Polymers LTDA

Message:

Polypropylene with 20% fiberglass, ideal for injection molding, resistant to oil, grease and various solvents, has a high tensile strength and higher HDT, and excellent dimensional stability.

| General Information | | | |
|---------------------------------------------------------|----------------------------------|-------------------|-------------------------|
| Filler / Reinforcement | Glass Fiber,20% Filler by Weight | | |
| Features | Good Dimensional Stability | | |
| | Grease Resistant | | |
| | High Strength | | |
| | Oil Resistant | | |
| | Solvent Resistant | | |
| Processing Method | Injection Molding | | |
| Physical | Nominal Value | Unit | Test Method |
| Specific Gravity | 1.03 to 1.07 | g/cm ³ | ASTM D792 |
| Melt Mass-Flow Rate (MFR) | 3.0 to 15 | g/10 min | ASTM D1238 |
| Molding Shrinkage - Flow | 0.50 to 1.0 | % | ASTM D955 |
| Water Absorption (Equilibrium) | 1.0 to 2.0 | % | ASTM D570 |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Strength | 45.0 | MPa | ASTM D638 |
| Tensile Elongation (Break) | 5.0 | % | ASTM D638 |
| Flexural Modulus | 3000 | MPa | ASTM D790 |
| Flexural Strength | 80.0 | MPa | ASTM D790 |
| Impact | Nominal Value | Unit | Test Method |
| Notched Izod Impact | 55 | J/m | ASTM D256 |
| Thermal | Nominal Value | Unit | Test Method |
| Deflection Temperature Under Load (1.8 MPa, Unannealed) | 100 | °C | ASTM D648 |
| Continuous Use Temperature | 100 | °C | |
| Vicat Softening Temperature | 120 | °C | ASTM D1525 ¹ |
| Electrical | Nominal Value | Unit | Test Method |
| Volume Resistivity | > 1.0E+14 | ohms · cm | ASTM D257 |
| 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 | 2.0 | hr |
| Processing (Melt) Temp | 190 to 230 | °C |
| Mold Temperature | 60.0 to 80.0 | °C |

NOTE

1. Rate A (50°C/h), Loading 2 (50 N)

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