

# Bergamid™ B70 G10 H BK702

Polyamide 6

PolyOne Corporation

## Message:

Bergamid™B70 G10 H BK702 is a polyamide 6 (nylon 6) product, which contains a 10% glass fiber reinforced material. It can be processed by injection molding and is available in the Asia-Pacific region. The main characteristics are: flame retardant/rated flame.

| General Information  |   |                   |                 |
|--|---|-------------------|-----------------|
| Filler / Reinforcement   | Glass fiber reinforced material, 10% filler by weight |                   |                 |
| Appearance   | Black   |                   |                 |
| Processing Method  | Injection molding                                     |                   |                 |
| Physical   | Nominal Value   | Unit              | Test Method     |
| Specific Gravity   | 1.20  | g/cm <sup>3</sup> | ASTM D792       |
| Molding Shrinkage  | 0.90 - 1.2  | %                 | ASTM D955       |
| Mechanical   | Nominal Value   | Unit              | Test Method     |
| Tensile Strength <sup>1</sup>  | 100   | MPa               | ASTM D638       |
| Flexural Modulus <sup>2</sup>  | 4000  | MPa               | ASTM D790       |
| Flexural Strength <sup>3</sup>   | 150   | MPa               | ASTM D790       |
| Impact   | Nominal Value   | Unit              | Test Method     |
| Notched Izod Impact (23°C, 3.20 mm)  | 50  | J/m               | ASTM D256       |
| Thermal  | Nominal Value   | Unit              | Test Method     |
| Deflection Temperature Under Load (1.8 MPa, Unannealed, 3.20 mm)                           | 180   | °C                | ASTM D648       |
| Electrical   | Nominal Value   | Unit              | Test Method     |
| Surface Resistivity  | 1.0E+14   | ohms              | ASTM D257       |
| Flammability   | Nominal Value   | Unit              | Test Method     |
| Flame Rating (1.60 mm)   | HB  |                   | Internal method |
| Injection  | Nominal Value   | Unit              |                 |
| Drying Temperature   | 80.0 - 100  | °C                |                 |
| Drying Time  | 4.0 - 6.0   | hr                |                 |
| Rear Temperature   | 220 - 270   | °C                |                 |
| Middle Temperature   | 220 - 270   | °C                |                 |
| Front Temperature  | 220 - 270   | °C                |                 |
| Mold Temperature   | 60.0 - 80.0   | °C                |                 |
| Injection instructions   |   |                   |                 |
| Injection Pressure: MED-HIGHHold Pressure: MED-HIGHScrew Speed: MODERATEBack Pressure: LOW |   |                   |                 |
| NOTE   |   |                   |                 |
| 1.   | 5.0 mm/min  |                   |                 |
| 2.   | 1.3 mm/min  |                   |                 |
| 3.   | 1.3 mm/min  |                   |                 |

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