

# Bergamid™ A700 Mi/G30 UF

Polyamide 66

PolyOne Corporation

## Message:

Bergamid™ A700 Mi/G30 UF is a Polyamide 66 (Nylon 66) product filled with 30% glass\mineral. It is available in Africa & Middle East, Asia Pacific, or Europe. Typical application: Wire & Cable.

Characteristics include:

Flame Rated

RoHS Compliant

Flame Retardant

Halogen Free

| General Information                     |                                    |                   |             |
|-----------------------------------------|------------------------------------|-------------------|-------------|
| UL YellowCard                           | E76261-531238                      |                   |             |
| Filler / Reinforcement                  | Glass\Mineral,30% Filler by Weight |                   |             |
| Features                                | Flame Retardant                    |                   |             |
|                                         | Halogen Free                       |                   |             |
| Agency Ratings                          | UL QMFZ2 .E76261                   |                   |             |
| RoHS Compliance                         | RoHS Compliant                     |                   |             |
| Forms                                   | Pellets                            |                   |             |
| Physical                                | Nominal Value                      | Unit              | Test Method |
| Density <sup>1</sup>                    | 1.42                               | g/cm <sup>3</sup> | ISO 1183    |
| Mechanical                              | Nominal Value                      | Unit              | Test Method |
| Tensile Modulus (23°C)                  | 8200                               | MPa               | ISO 527-2/1 |
| Tensile Stress (Break, 23°C)            | 110                                | MPa               | ISO 527-2/5 |
| Tensile Strain (Break, 23°C)            | 2.4                                | %                 | ISO 527-2/5 |
| Impact                                  | Nominal Value                      | Unit              | Test Method |
| Charpy Notched Impact Strength (23°C)   | 4.5                                | kJ/m <sup>2</sup> | ISO 179/1eA |
| Charpy Unnotched Impact Strength (23°C) | 18                                 | kJ/m <sup>2</sup> | ISO 179/1eU |
| Thermal                                 | Nominal Value                      | Unit              | Test Method |
| Heat Deflection Temperature             |                                    |                   |             |
| 0.45 MPa, Unannealed                    | 250                                | °C                | ISO 75-2/B  |
| 1.8 MPa, Unannealed                     | 205                                | °C                | ISO 75-2/A  |
| Melting Temperature (DSC)               | 255 to 265                         | °C                | ISO 3146    |
| Electrical                              | Nominal Value                      | Unit              | Test Method |
| Surface Resistivity                     | 1.0E+13                            | ohms              | IEC 60093   |
| Volume Resistivity                      | 1.0E+15                            | ohms·cm           | IEC 60093   |
| Relative Permittivity (1 MHz)           | 3.60                               |                   | IEC 60250   |
| Comparative Tracking Index (Solution A) | 600                                | V                 | IEC 60112   |
| Flammability                            | Nominal Value                      | Unit              | Test Method |
| Flame Rating                            |                                    |                   | UL 94       |

| 0.800 mm, ALL                  | V-0                     |                |
|--------------------------------|-------------------------|----------------|
| 1.50 mm, ALL                   | V-0                     |                |
| 3.00 mm, ALL                   | V-0                     |                |
| Glow Wire Flammability Index   |                         | IEC 60695-2-12 |
| 0.800 mm                       | 960                     | °C             |
| 1.60 mm                        | 960                     | °C             |
| Glow Wire Ignition Temperature |                         | IEC 60695-2-13 |
| 0.800 mm                       | 775                     | °C             |
| 1.60 mm                        | 825                     | °C             |
| Injection                      | Nominal Value           | Unit           |
| Drying Temperature             | 80.0                    | °C             |
| Drying Time                    | 4.0                     | hr             |
| Processing (Melt) Temp         | 260 to 280              | °C             |
| Mold Temperature               | 60.0 to 90.0            | °C             |
| Holding Pressure               | 40.0 to 90.0            | MPa            |
| NOTE                           |                         |                |
| 1.                             | ±0.03 g/cm <sup>3</sup> |                |

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