

# Bergamid™ A70 G35 UF SO

Polyamide 66  
PolyOne Corporation

Message:

Bergamid™ A70 G35 UF SO is a Polyamide 66 (Nylon 66) product filled with 35% glass fiber. It is available in Africa & Middle East, Asia Pacific, Europe, or North America.

Characteristics include:

Flame Rated  
RoHS Compliant  
Flame Retardant  
Halogen Free

| General Information                               |                                  |                   |             |
|---------------------------------------------------|----------------------------------|-------------------|-------------|
| Filler / Reinforcement                            | Glass Fiber,35% Filler by Weight |                   |             |
| Features                                          | Flame Retardant                  |                   |             |
|                                                   | Halogen Free                     |                   |             |
|                                                   | Low (to None) Phosphorus Content |                   |             |
| RoHS Compliance                                   | RoHS Compliant                   |                   |             |
| Forms                                             | Pellets                          |                   |             |
| Physical                                          | Nominal Value                    | Unit              | Test Method |
| Density <sup>1</sup> (23°C)                       | 1.47                             | g/cm <sup>3</sup> | DIN 53479   |
| Ash Content                                       | > 35                             | %                 | ISO 3451    |
| Maximum Use Temperature                           |                                  |                   | IEC 60216   |
| -- <sup>2</sup>                                   | 110                              | °C                |             |
| Short Time                                        | 220                              | °C                |             |
| Mechanical                                        | Nominal Value                    | Unit              | Test Method |
| Tensile Modulus (23°C, 4.00 mm)                   | 12000                            | MPa               | ISO 527-2/1 |
| Tensile Stress (Break, 23°C, 4.00 mm)             | 130                              | MPa               | ISO 527-2/5 |
| Tensile Strain (Break, 23°C, 4.00 mm)             | 2.0                              | %                 | ISO 527-2/5 |
| Impact                                            | Nominal Value                    | Unit              | Test Method |
| Charpy Notched Impact Strength (23°C)             | 7.5                              | kJ/m <sup>2</sup> | ISO 179/1eA |
| Charpy Unnotched Impact Strength (23°C)           | 50                               | kJ/m <sup>2</sup> | ISO 179/1eU |
| Thermal                                           | Nominal Value                    | Unit              | Test Method |
| Heat Deflection Temperature (1.8 MPa, Unannealed) | 236                              | °C                | ISO 75-2/A  |
| Melting Temperature (DSC)                         | 261                              | °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   |
| 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                          |    |                |
| 3.00 mm                                                        | V-0                          |    |                |
| Glow Wire Ignition Temperature <sup>3</sup> (0.800 to 3.00 mm) | 960                          | °C | IEC 60695-2-13 |
| NOTE                                                           |                              |    |                |
| 1.                                                             | ±0.03 g/cm <sup>3</sup>      |    |                |
| 2.                                                             | Continuous (GTP 50% Tensile) |    |                |
| 3.                                                             | 0.8 mm wire                  |    |                |

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