



# Bergamid™ B700 Mi10 UF

## Polyamide 6

### Key Characteristics

| General                |                                 |                |          |
|------------------------|---------------------------------|----------------|----------|
| Material Status        | • Commercial: Active            |                |          |
| Regional Availability  | • Africa & Middle East          | • Asia Pacific | • Europe |
| Filler / Reinforcement | • Mineral, 10% Filler by Weight |                |          |
| RoHS Compliance        | • RoHS Compliant                |                |          |
| Forms                  | • Pellets                       |                |          |

### Technical Properties <sup>1</sup>

| Physical                                                        | Typical Value (English)   | Typical Value (SI)     | Test Method     |
|-----------------------------------------------------------------|---------------------------|------------------------|-----------------|
| Density <sup>2</sup>                                            | 1.26 g/cm <sup>3</sup>    | 1.26 g/cm <sup>3</sup> | DIN 53479       |
| Ash Content                                                     | 10 %                      | 10 %                   | ISO 3451        |
| Mechanical                                                      | Typical Value (English)   | Typical Value (SI)     | Test Method     |
| Tensile Modulus (73°F (23°C))                                   | 537000 psi                | 3700 MPa               | ISO 527-2/1     |
| Tensile Stress (Break, 73°F (23°C))                             | 10200 psi                 | 70.0 MPa               | ISO 527-2/5     |
| Tensile Strain (Break, 73°F (23°C))                             | 3.0 %                     | 3.0 %                  | ISO 527-2/5     |
| Impact                                                          | Typical Value (English)   | Typical Value (SI)     | Test Method     |
| Charpy Notched Impact Strength (73°F (23°C))                    | 3.0 ft·lb/in <sup>2</sup> | 6.3 kJ/m <sup>2</sup>  | ISO 179/1eA     |
| Charpy Unnotched Impact Strength<br>73°F (23°C)                 | 90 ft·lb/in <sup>2</sup>  | 190 kJ/m <sup>2</sup>  | ISO 179/1eU     |
| Thermal                                                         | Typical Value (English)   | Typical Value (SI)     | Test Method     |
| Melting Temperature (DSC)                                       | 433 °F                    | 223 °C                 | ISO 3146        |
| Electrical                                                      | Typical Value (English)   | Typical Value (SI)     | Test Method     |
| Surface Resistivity                                             | 1.0E+10 ohms              | 1.0E+10 ohms           | IEC 60093       |
| Volume Resistivity                                              | 1.0E+12 ohms·cm           | 1.0E+12 ohms·cm        | IEC 60093       |
| Comparative Tracking Index (Solution A)                         | 600 V                     | 600 V                  | IEC 60112       |
| Flammability                                                    | Typical Value (English)   | Typical Value (SI)     | Test Method     |
| Flame Rating (0.06 in (1.6 mm), ALL)                            | V-2                       | V-2                    | Internal Method |
| Glow Wire Ignition Temperature <sup>3</sup><br>0.12 in (3.0 mm) | 1760 °F                   | 960 °C                 | IEC 60695-2-13  |

### Notes

<sup>1</sup> Typical values are not to be construed as specifications.

<sup>2</sup> ±0.03 g/cm<sup>3</sup>

<sup>3</sup> 1.6 mm wire

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## CONTACT INFORMATION

## Americas

United States - Avon Lake  
+1 440 930 1000

United States - McHenry  
+1 815 385 8500

## Asia

China - Guangzhou  
+86 20 8732 7260

China - Shenzhen  
+86 755 2969 2888

China - Suzhou  
+86 512 6823 24 38

China - Suzhou  
+86 512 6265 2600

Hong Kong -  
+852 2690 5332

Taiwan - Yonghe City,  
+886 9396 99740, +886 2929 1849

## Europe

Germany - Gaggenau  
+49 7225 6802 0

Spain - Barbastro (Huesca)  
+34 974 310 314



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[www.polyone.com](http://www.polyone.com)

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**PolyOne Americas**

33587 Walker Road  
Avon Lake, Ohio 44012  
United States  
+1 440 930 1000  
+1 866 POLYONE

**PolyOne Asia**

No. 88 Guoshoujing Road  
Z.J Hi-tech Park, Pudong  
Shanghai, 201203, China  
+86 21 5080 1188

**PolyOne Europe**

6 Giällewee  
+352 269 050 35

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