

# Bergamid™ B70 G30 H white VN8080CF UV

Polyamide 6  
PolyOne Corporation

Message:

Bergamid™ B70 G30 H white VN8080CF UV is a Polyamide 6 (Nylon 6) product filled with 30% glass fiber. It can be processed by injection molding and is available in Europe.  
Characteristics include:  
Flame Rated  
RoHS Compliant  
Good Dimensional Stability  
Good Stiffness  
Good UV Resistance

| General Information                                    |                                  |                   |                 |
|--|----------------------------------|-------------------|-----------------|
| Filler / Reinforcement                                 | Glass Fiber,30% Filler by Weight |                   |                 |
| Features   | Good Dimensional Stability       |                   |                 |
|  | Good Flow                        |                   |                 |
|  | Good Stiffness                   |                   |                 |
|  | Good UV Resistance               |                   |                 |
| RoHS Compliance  | RoHS Compliant                   |                   |                 |
| Forms  | Pellets                          |                   |                 |
| Processing Method                                      | Injection Molding                |                   |                 |
| Physical   | Nominal Value                    | Unit              | Test Method     |
| Specific Gravity <sup>1</sup>                          | 1.35                             | g/cm <sup>3</sup> | DIN 53479       |
| Molding Shrinkage - Flow <sup>2</sup> (23°C, 4.00 mm)  | 0.20 to 0.70                     | %                 | ISO 294-4       |
| Mechanical   | Nominal Value                    | Unit              | Test Method     |
| Tensile Modulus (23°C, 4.00 mm, Injection Molded)      | 10200                            | MPa               | ISO 527-2/1     |
| Tensile Strength <sup>3</sup> (23°C, 4.00 mm)          | 160                              | MPa               | ISO 527         |
| Tensile Elongation <sup>4</sup> (Break, 23°C, 4.00 mm) | 2.6                              | %                 | ISO 527         |
| Impact   | Nominal Value                    | Unit              | Test Method     |
| Charpy Notched Impact Strength                         | 12                               | kJ/m <sup>2</sup> | ISO 179         |
| Charpy Unnotched Impact Strength                       | 73                               | kJ/m <sup>2</sup> | ISO 179         |
| Electrical   | Nominal Value                    | Unit              | Test Method     |
| Surface Resistivity                                    | 1.0E+13                          | ohms              | IEC 60093       |
| Volume Resistivity                                     | 1.0E+15                          | ohms·cm           | IEC 60093       |
| Flammability   | Nominal Value                    | Unit              | Test Method     |
| Flame Rating (0.800 to 3.00 mm, ALL)                   | HB                               |                   | Internal Method |
| Injection  | Nominal Value                    | Unit              |                 |
| Drying Temperature                                     | 80.0                             | °C                |                 |
| Drying Time  | 4.0                              | hr                |                 |

|                        |              |    |
|------------------------|--------------|----|
| Processing (Melt) Temp | 240 to 280   | °C |
| Mold Temperature       | 65.0 to 85.0 | °C |

| NOTE |                 |  |
|------|-----------------|--|
| 1.   | ±0.03           |  |
| 2.   | Bergmann method |  |
| 3.   | 5.0 mm/min      |  |
| 4.   | 5.0 mm/min      |  |

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