



# Bergamid™ B70 MI5 H BK PM-X HQS UV

## Polyamide 6

### Key Characteristics

| General                |                                                                     |
|------------------------|---------------------------------------------------------------------|
| Material Status        | • Commercial: Active                                                |
| Regional Availability  | • Europe                                                            |
| Filler / Reinforcement | • Mineral, 5.0% Filler by Weight                                    |
| Features               | • Antistatic<br>• High Gloss<br>• Impact Modified<br>• UV Resistant |
| RoHS Compliance        | • RoHS Compliant                                                    |
| Forms                  | • Pellets                                                           |

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

| Physical                                                                      | Typical Value (English)          | Typical Value (SI)           | Test Method |
|-------------------------------------------------------------------------------|----------------------------------|------------------------------|-------------|
| Density                                                                       | 1.15 g/cm <sup>3</sup>           | 1.15 g/cm <sup>3</sup>       | ISO 1183    |
| Mechanical                                                                    | Typical Value (English)          | Typical Value (SI)           | Test Method |
| Tensile Modulus<br>73°F (23°C), 0.157 in (4.00 mm),<br>Injection Molded       | 363000 psi                       | 2500 MPa                     | ISO 527-2/1 |
| Tensile Stress<br>Break, 73°F (23°C), 0.157 in (4.00 mm),<br>Injection Molded | 8700 psi                         | 60.0 MPa                     | ISO 527-2/5 |
| Tensile Strain<br>Break, 73°F (23°C), 0.157 in (4.00 mm),<br>Injection Molded | > 30 %                           | > 30 %                       | ISO 527-2/5 |
| Flexural Modulus (73°F (23°C))                                                | 319000 psi                       | 2200 MPa                     | ISO 178     |
| Impact                                                                        | Typical Value (English)          | Typical Value (SI)           | Test Method |
| Charpy Notched Impact<br>Strength (73°F (23°C))                               | 2.9 to 3.3 ft·lb/in <sup>2</sup> | 6.0 to 7.0 kJ/m <sup>2</sup> | ISO 179/1eA |
| Charpy Unnotched Impact Strength<br>73°F (23°C)                               | No Break                         | No Break                     | ISO 179/1eU |
| Thermal                                                                       | Typical Value (English)          | Typical Value (SI)           | Test Method |
| Heat Deflection Temperature <sup>2</sup><br>66 psi (0.45 MPa), Unannealed     | 320 °F                           | 160 °C                       | ISO 75-2/B  |

### Processing Information

| Injection              | Typical Value (English) | Typical Value (SI) |
|------------------------|-------------------------|--------------------|
| Drying Temperature     | 176 °F                  | 80 °C              |
| Drying Time            | 4.0 hr                  | 4.0 hr             |
| Processing (Melt) Temp | 464 to 518 °F           | 240 to 270 °C      |
| Mold Temperature       | 140 to 176 °F           | 60 to 80 °C        |

### Notes

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

<sup>2</sup> single values deviate about 30 °C