



# Bergamid™ A70 G20 H SO2

## Polyamide 66

### Key Characteristics

| General                |                                     |
|------------------------|-------------------------------------|
| Material Status        | • Commercial: Active                |
| Regional Availability  | • Europe                            |
| Filler / Reinforcement | • Glass Fiber, 20% Filler by Weight |
| Features               | • Heat Stabilized                   |
| Forms                  | • Pellets                           |

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

| Physical  | Typical Value (English)   | Typical Value (SI)     | Test Method    |
|---|---------------------------|------------------------|----------------|
| Density <sup>2</sup>                                      | 1.29 g/cm <sup>3</sup>    | 1.29 g/cm <sup>3</sup> | ISO 1183       |
| Mechanical  | Typical Value (English)   | Typical Value (SI)     | Test Method    |
| Tensile Modulus   | 1.02E+6 psi               | 7000 MPa               | ISO 527-2      |
| Tensile Stress  | 17400 psi                 | 120 MPa                | ISO 527-2      |
| Tensile Strain (Break)                                    | 2.5 %                     | 2.5 %                  | ISO 527-2      |
| Impact  | Typical Value (English)   | Typical Value (SI)     | Test Method    |
| Charpy Notched Impact Strength (73°F (23°C))              | 2.4 ft·lb/in <sup>2</sup> | 5.0 kJ/m <sup>2</sup>  | ISO 179        |
| Charpy Unnotched Impact Strength 73°F (23°C)              | 19 ft·lb/in <sup>2</sup>  | 40 kJ/m <sup>2</sup>   | ISO 179        |
| Thermal   | Typical Value (English)   | Typical Value (SI)     | Test Method    |
| Heat Deflection Temperature 66 psi (0.45 MPa), Unannealed | 482 °F                    | 250 °C                 | ISO 75-2/B     |
| Heat Deflection Temperature 264 psi (1.8 MPa), Unannealed | 482 °F                    | 250 °C                 | ISO 75-2/A     |
| Melting Temperature (DSC)                                 | 491 to 509 °F             | 255 to 265 °C          | ISO 3146       |
| Electrical  | Typical Value (English)   | Typical Value (SI)     | Test Method    |
| Surface Resistivity                                       | 1.0E+13 ohms              | 1.0E+13 ohms           | IEC 60093      |
| Volume Resistivity  | 1.0E+15 ohms·cm           | 1.0E+15 ohms·cm        | IEC 60093      |
| Flammability  | Typical Value (English)   | Typical Value (SI)     | Test Method    |
| Flame Rating  |                           |                        | UL 94          |
| 0.06 in (1.6 mm)  | HB                        | HB                     |                |
| 0.12 in (3.0 mm)  | HB                        | HB                     |                |
| Glow Wire Flammability Index 0.12 in (3.0 mm)             | 1200 °F                   | 650 °C                 | IEC 60695-2-12 |

### Processing Information

| Injection              | Typical Value (English) | Typical Value (SI) |
|------------------------|-------------------------|--------------------|
| Drying Temperature     | 176 °F                  | 80 °C              |
| Drying Time            | 3.0 to 4.0 hr           | 3.0 to 4.0 hr      |
| Suggested Max Moisture | < 0.10 %                | < 0.10 %           |
| Processing (Melt) Temp | 536 to 572 °F           | 280 to 300 °C      |
| Mold Temperature       | 140 to 194 °F           | 60 to 90 °C        |

**Notes**

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

<sup>2</sup> +0,02

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