



# Bergamid™ B70 GK20 BLACK UV TM-X

## Polyamide 6

### Key Characteristics

| Product Description    |                                    |  |
|------------------------|------------------------------------|--|
| 6024019                |                                    |  |
| General                |                                    |  |
| Material Status        | • Commercial: Active               |  |
| Regional Availability  | • Africa & Middle East • Europe    |  |
| Filler / Reinforcement | • Glass Bead, 20% Filler by Weight |  |
| Features               | • Impact Modified • UV Stabilized  |  |
| RoHS Compliance        | • RoHS Compliant                   |  |
| Appearance             | • Black                            |  |
| Forms                  | • Pellets                          |  |
| Processing Method      | • Injection Molding                |  |

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

| Physical                                | Typical Value (English)   | Typical Value (SI)    | Test Method |
|-----------------------------------------|---------------------------|-----------------------|-------------|
| Density / Specific Gravity <sup>2</sup> | 1.26                      | 1.26                  | ISO 1183    |
| Mechanical                              | Typical Value (English)   | Typical Value (SI)    | Test Method |
| Tensile Modulus                         | 413000 psi                | 2850 MPa              | ISO 527-2   |
| Tensile Stress (Break)                  | 6960 psi                  | 48.0 MPa              | ISO 527-2   |
| Tensile Strain (Break)                  | > 7.0 %                   | > 7.0 %               | ISO 527-2   |
| Flexural Modulus                        | 377000 psi                | 2600 MPa              | ISO 178     |
| Flexural Stress                         | 10900 psi                 | 75.0 MPa              | ISO 178     |
| Impact                                  | Typical Value (English)   | Typical Value (SI)    | Test Method |
| Charpy Notched Impact Strength          | 2.4 ft-lb/in <sup>2</sup> | 5.0 kJ/m <sup>2</sup> | ISO 179     |
| Charpy Unnotched Impact Strength        | 18 ft-lb/in <sup>2</sup>  | 38 kJ/m <sup>2</sup>  | ISO 179     |
| Flammability                            | Typical Value (English)   | Typical Value (SI)    | Test Method |
| Flame Rating (0.13 in (3.2 mm), ALL)    | HB                        | HB                    | UL 94       |

### Processing Information

| Injection              | Typical Value (English) | Typical Value (SI) |
|------------------------|-------------------------|--------------------|
| Drying Temperature     | 176 °F                  | 80 °C              |
| Drying Time            | 4.0 hr                  | 4.0 hr             |
| Suggested Max Moisture | < 0.10 %                | < 0.10 %           |
| Processing (Melt) Temp | 464 to 536 °F           | 240 to 280 °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 g/cm<sup>3</sup>