



## Bergamid™ B70 GK30 Black

### Polyamide 6

#### Key Characteristics

| General                |                                    |                |          |
|------------------------|------------------------------------|----------------|----------|
| Material Status        | • Commercial: Active               |                |          |
| Regional Availability  | • Africa & Middle East             | • Asia Pacific | • Europe |
| Filler / Reinforcement | • Glass Bead, 30% Filler by Weight |                |          |
| RoHS Compliance        | • RoHS Compliant                   |                |          |
| Forms                  | • Pellets                          |                |          |

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

| Physical                                                                      | Dry              | Conditioned | Unit                                          | Test Method |
|-------------------------------------------------------------------------------|------------------|-------------|-----------------------------------------------|-------------|
| Density <sup>2</sup> (73°F (23°C))                                            | 1.37             | --          | g/cm <sup>3</sup>                             | DIN 53479   |
| Molding Shrinkage <sup>3</sup>                                                | 2.0              | --          | %                                             | ISO 294-4   |
| Ash Content                                                                   | 30               | --          | %                                             | ISO 3451    |
| Mechanical                                                                    | Dry              | Conditioned | Unit                                          | Test Method |
| Tensile Modulus<br>73°F (23°C), 0.157 in (4.00 mm),<br>Injection Molded       | 587000<br>(4050) | --          | psi<br>(MPa)                                  | ISO 527-2/1 |
| Tensile Stress<br>Break, 73°F (23°C), 0.157 in (4.00 mm),<br>Injection Molded | 11000<br>(76.0)  | --          | psi<br>(MPa)                                  | ISO 527-2/5 |
| Tensile Strain<br>Break, 73°F (23°C), 0.157 in (4.00 mm),<br>Injection Molded | > 7.0            | --          | %                                             | ISO 527-2/5 |
| Impact                                                                        | Dry              | Conditioned | Unit                                          | Test Method |
| Charpy Notched Impact Strength<br>73°F (23°C), Injection Molded               | 1.6<br>(3.3)     | --          | ft·lb/in <sup>2</sup><br>(kJ/m <sup>2</sup> ) | ISO 179     |
| Charpy Unnotched Impact Strength<br>73°F (23°C), Injection Molded             | 12<br>(25)       | --          | ft·lb/in <sup>2</sup><br>(kJ/m <sup>2</sup> ) | ISO 179     |
| Thermal                                                                       | Dry              | Conditioned | Unit                                          | Test Method |
| Heat Deflection Temperature<br>66 psi (0.45 MPa), Unannealed                  | 401<br>(205)     | --          | °F<br>(°C)                                    | ISO 75-2/B  |
| Maximum Use Temperature<br>-- <sup>4</sup>                                    | 203<br>(95)      | --          | °F<br>(°C)                                    | IEC 60216   |
| Short Time                                                                    | 374<br>(190)     | --          | °F<br>(°C)                                    |             |
| Melting Temperature (DSC)                                                     | 433<br>(223)     | --          | °F<br>(°C)                                    | ISO 3146    |
| Electrical                                                                    | Dry              | Conditioned | Unit                                          | Test Method |
| Surface Resistivity                                                           | 1.0E+14          | 1.0E+12     | ohms                                          | IEC 60093   |
| Volume Resistivity                                                            | 1.0E+15          | 1.0E+13     | ohms·cm                                       | IEC 60093   |

**Notes**

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

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<sup>2</sup>  $\pm 0.03 \text{ g/cm}^3$

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<sup>3</sup> Bergmann method

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<sup>4</sup> Continuous (GTP 50% Tensile)

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