



# Bergamid™ A70 G20 UF BK TM-X Polyamide 66

## Key Characteristics

| General                |                                     |                |                   |
|------------------------|-------------------------------------|----------------|-------------------|
| Material Status        | • Commercial: Active                |                |                   |
| Regional Availability  | • Africa & Middle East              | • Europe       | • North America   |
|                        | • Asia Pacific                      |                |                   |
| Filler / Reinforcement | • Glass Fiber, 20% Filler by Weight |                |                   |
| Features               | • Flame Retardant                   | • Halogen Free | • Impact Modified |
| 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))                          | 1.32              | --          | g/cm <sup>3</sup>                             | DIN 53479      |
| Mechanical  | Dry               | Conditioned | Unit  | Test Method    |
| Tensile Modulus   |                   |             |   | ISO 527-2/1    |
| 73°F (23°C), 0.157 in (4.00 mm)                             | 1.09E+6<br>(7500) | --          | psi<br>(MPa)                                  |                |
| Tensile Stress  |                   |             |   | ISO 527-2/5    |
| Break, 73°F (23°C), 0.157 in (4.00 mm),<br>Injection Molded | 18900<br>(130)    | --          | psi<br>(MPa)                                  |                |
| Tensile Strain  |                   |             |   | ISO 527-2/5    |
| Break, 73°F (23°C), 0.157 in (4.00 mm),<br>Injection Molded | > 3.0             | --          | %   |                |
| Impact  | Dry               | Conditioned | Unit  | Test Method    |
| Charpy Notched Impact<br>Strength (73°F (23°C))             | 2.9<br>(6.0)      | --          | ft·lb/in <sup>2</sup><br>(kJ/m <sup>2</sup> ) | ISO 179/1eA    |
| Charpy Unnotched Impact Strength                            |                   |             |   | ISO 179/1eU    |
| 73°F (23°C)   | 25<br>(53)        | --          | ft·lb/in <sup>2</sup><br>(kJ/m <sup>2</sup> ) |                |
| Thermal   | Dry               | Conditioned | Unit  | Test Method    |
| Heat Deflection Temperature                                 |                   |             |   | ISO 75-2/A     |
| 264 psi (1.8 MPa), Unannealed                               | 460<br>(238)      | --          | °F<br>(°C)                                    |                |
| Melting Temperature (DSC)                                   | 502<br>(261)      | --          | °F<br>(°C)                                    | ISO 3146       |
| Electrical  | Dry               | Conditioned | Unit  | Test Method    |
| Comparative Tracking Index                                  | > 500             | --          | V   | ASTM D3638     |
| Flammability  | Dry               | Conditioned | Unit  | Test Method    |
| Flame Rating  |                   |             |   | UL 94          |
| 0.031 in (0.8 mm)   | V-2               | --          |   |                |
| 0.06 to 0.12 in (1.5 to 3.0 mm)                             | V-1               | --          |   |                |
| Glow Wire Flammability Index                                |                   |             |   | IEC 60695-2-12 |
| 0.03 to 0.12 in (0.8 to 3.0 mm)                             | 1760<br>(960)     | --          | °F<br>(°C)                                    |                |

**Notes**

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

<sup>2</sup>  $\pm 0.03$  g/cm<sup>3</sup>

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