



## Bergamid™ B75 L Natural

### Polyamide 6

#### Key Characteristics

| General               |                        |                |          |
|-----------------------|------------------------|----------------|----------|
| Material Status       | • Commercial: Active   |                |          |
| Regional Availability | • Africa & Middle East | • Asia Pacific | • Europe |
| Features              | • Impact Modified      |                |          |
| Appearance            | • Natural Color        |                |          |
| Forms                 | • Pellets              |                |          |

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

| Physical                                                  | Typical Value (English)        | Typical Value (SI)             | Test Method |
|-----------------------------------------------------------|--------------------------------|--------------------------------|-------------|
| Density                                                   | 1.06 to 1.10 g/cm <sup>3</sup> | 1.06 to 1.10 g/cm <sup>3</sup> | ISO 1183    |
| Mechanical                                                | Typical Value (English)        | Typical Value (SI)             | Test Method |
| Tensile Modulus                                           | 377000 psi                     | 2600 MPa                       | ISO 527-2   |
| Tensile Stress                                            | 9430 psi                       | 65.0 MPa                       | ISO 527-2   |
| Tensile Strain (Break)                                    | 30 %                           | 30 %                           | ISO 527-2   |
| Flexural Stress                                           | 14500 psi                      | 100 MPa                        | ISO 178     |
| Impact                                                    | Typical Value (English)        | Typical Value (SI)             | Test Method |
| Charpy Notched Impact Strength (73°F (23°C))              | > 9.5 ft·lb/in <sup>2</sup>    | > 20 kJ/m <sup>2</sup>         | ISO 179/1eA |
| Charpy Unnotched Impact Strength 73°F (23°C)              | No Break                       | No Break                       | ISO 179/1eU |
| Thermal                                                   | Typical Value (English)        | Typical Value (SI)             | Test Method |
| Heat Deflection Temperature 264 psi (1.8 MPa), Unannealed | 140 °F                         | 60.0 °C                        | ISO 75-2/A  |
| Maximum Use Temperature                                   |                                |                                | IEC 60216   |
| Continuous                                                | 194 °F                         | 90 °C                          |             |
| Short Time                                                | 356 °F                         | 180 °C                         |             |
| Melting Temperature (DSC)                                 | 419 to 437 °F                  | 215 to 225 °C                  | ISO 3146    |
| Electrical                                                | Typical Value (English)        | Typical Value (SI)             | Test Method |
| Comparative Tracking Index                                | 500 V                          | 500 V                          | IEC 60112   |
| Flammability                                              | Typical Value (English)        | Typical Value (SI)             | Test Method |
| Flame Rating (0.13 in (3.2 mm))                           | HB                             | HB                             | UL 94       |
| FMVSS Flammability                                        | < 3.9 in/min                   | < 100 mm/min                   | DIN 75200   |

#### 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 | 482 to 536 °F           | 250 to 280 °C      |
| Mold Temperature       | 104 to 176 °F           | 40 to 80 °C        |
| Holding Pressure       | 7250 to 14500 psi       | 50.0 to 100 MPa    |

#### Notes

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

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