

# **Bergamid™ A70 G50 HW Ind Natural Rec Q1**

## **Polyamide 66**

### **Key Characteristics**

| General                |                                     |
|------------------------|-------------------------------------|
| Material Status        | • Commercial: Active                |
| Regional Availability  | • Europe                            |
| Filler / Reinforcement | • Glass Fiber, 50% Filler by Weight |
| Additive               | • Heat Stabilizer                   |
| Recycled Content       | • Yes                               |
| Features               | • General Purpose                   |
| Forms                  | • Granules                          |

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

| Physical                                                          | Typical Value (English)   | Typical Value (SI)     | Test Method |
|-------------------------------------------------------------------|---------------------------|------------------------|-------------|
| Density                                                           | 1.57 g/cm <sup>3</sup>    | 1.57 g/cm <sup>3</sup> | ISO 1183    |
| Viscosity Number                                                  | 150 cm <sup>3</sup> /g    | 150 cm <sup>3</sup> /g | ISO 307     |
| Mechanical                                                        | Typical Value (English)   | Typical Value (SI)     | Test Method |
| Tensile Modulus (73°F (23°C))                                     | 2.47E+6 psi               | 17000 MPa              | ISO 527-1/1 |
| Tensile Stress (Break, 73°F (23°C))                               | 31900 psi                 | 220 MPa                | ISO 527-2   |
| Tensile Strain (Break, 73°F (23°C))                               | 2.0 %                     | 2.0 %                  | ISO 527-2   |
| Impact                                                            | Typical Value (English)   | Typical Value (SI)     | Test Method |
| Charpy Notched Impact Strength (73°F (23°C))                      | 4.8 ft·lb/in <sup>2</sup> | 10 kJ/m <sup>2</sup>   | ISO 179     |
| Charpy Unnotched Impact Strength (73°F (23°C))                    | 33 ft·lb/in <sup>2</sup>  | 70 kJ/m <sup>2</sup>   | ISO 179     |
| Thermal                                                           | Typical Value (English)   | Typical Value (SI)     | Test Method |
| Deflection Temperature Under Load (66 psi (0.45 MPa), Unannealed) | 482 °F                    | 250 °C                 | ISO 75-2/B  |
| Deflection Temperature Under Load (264 psi (1.8 MPa), Unannealed) | 482 °F                    | 250 °C                 | ISO 75-2/A  |
| Melting Temperature (DSC)                                         | 502 °F                    | 261 °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   |
| Comparative Tracking Index (Solution A)                           | 500 V                     | 500 V                  | IEC 60112   |
| Flammability                                                      | Typical Value (English)   | Typical Value (SI)     | Test Method |
| Flame Rating                                                      |                           |                        | UL 94       |
| 0.031 in (0.8 mm)                                                 | HB                        | HB                     |             |
| 0.06 in (1.6 mm)                                                  | HB                        | HB                     |             |

| Additional Information      |  |
|-----------------------------|--|
| Recycled content 40-50% PIR |  |

### **Notes**

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

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