

Bergamid™ A65 GK15 natur

Polyamide 66

Key Characteristics

General	
Material Status	• Commercial: Active
Regional Availability	• Europe
Filler / Reinforcement	• Glass Bead, 15% Filler by Weight
Features	• General Purpose • Good Flow
Forms	• Granules

Technical Properties ¹

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density ² (73°F (23°C))	1.23 g/cm ³	1.23 g/cm ³	DIN 53479
Molding Shrinkage ³ 73°F (23°C), 0.157 in (4.00 mm)	1.4 to 1.9 %	1.4 to 1.9 %	ISO 294-4
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Modulus ⁴ 73°F (23°C), 0.157 in (4.00 mm), Injection Molded	595000 psi	4100 MPa	ISO 527-2/1
Tensile Stress ⁴ Break, 73°F (23°C), 0.157 in (4.00 mm), Injection Molded	8700 psi	60.0 MPa	ISO 527-2/5
Tensile Strain ⁴ Break, 73°F (23°C), 0.157 in (4.00 mm), Injection Molded	1.5 %	1.5 %	ISO 527-2/5
Impact	Typical Value (English)	Typical Value (SI)	Test Method
Charpy Notched Impact Strength -22°F (-30°C), Injection Molded	0.67 ft·lb/in ²	1.4 kJ/m ²	ISO 179
73°F (23°C) ⁴	1.2 ft·lb/in ²	2.5 kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength -22°F (-30°C), Injection Molded	7.1 ft·lb/in ²	15 kJ/m ²	ISO 179
73°F (23°C), Injection Molded ⁴	7.1 ft·lb/in ²	15 kJ/m ²	ISO 179/1eA
Thermal	Typical Value (English)	Typical Value (SI)	Test Method
Heat Deflection Temperature 66 psi (0.45 MPa), Unannealed	434 °F	224 °C	ISO 75-2/B
Heat Deflection Temperature 264 psi (1.8 MPa), Unannealed	168 °F	75.5 °C	ISO 75-2/A
Maximum Use Temperature long term (GTP 50% tensile)	185 °F	85 °C	IEC 216
short time	356 °F	180 °C	IEC 60216
Melting Temperature (DSC)	502 °F	261 °C	ISO 3146
Electrical	Typical Value (English)	Typical Value (SI)	Test Method
Surface Resistivity -- ⁴	1.0E+13 ohms	1.0E+13 ohms	IEC 93
-- ⁵	1.0E+10 ohms	1.0E+10 ohms	

Electrical	Typical Value (English)	Typical Value (SI)	Test Method
Volume Resistivity			IEC 93
-- ⁴	1.0E+15 ohms·cm	1.0E+15 ohms·cm	
-- ⁵	1.0E+12 ohms·cm	1.0E+12 ohms·cm	
Dissipation Factor ⁵ (1 MHz)	1.0E-4	1.0E-4	IEC 60250
Comparative Tracking Index ⁴ (Solution A)	500 V	500 V	IEC 60112
Flammability	Typical Value (English)	Typical Value (SI)	Test Method
Flame Rating (0.06 in (1.6 mm))	HB	HB	UL 94

Notes

¹ Typical values are not to be construed as specifications.

² ±0.03

³ Bergmann method

⁴ dry

⁵ air humidity