



Bergamid™ B800 H grey VN4155CF UV

Polyamide 6

Key Characteristics

General			
Material Status	• Commercial: Active		
Regional Availability	• Africa & Middle East	• Asia Pacific	• Europe
Features	• Heat Aging Resistant	• High Viscosity	• UV Resistant
RoHS Compliance	• RoHS Compliant		
Forms	• Pellets		

Technical Properties ¹

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density ²	1.13 g/cm ³	1.13 g/cm ³	DIN 53479
K-Value ³	> 80.0	> 80.0	
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Modulus			ISO 527-2/1
73°F (23°C), 0.157 in (4.00 mm), Injection Molded	406000 psi	2800 MPa	
Tensile Stress			ISO 527-2/50
Yield, 73°F (23°C), 0.157 in (4.00 mm), Injection Molded	12300 psi	85.0 MPa	
Tensile Strain			ISO 527-2/50
Yield, 73°F (23°C), 0.157 in (4.00 mm), Injection Molded	3.5 %	3.5 %	
Flexural Modulus (73°F (23°C))	392000 psi	2700 MPa	ISO 178
Flexural Stress (73°F (23°C))	13100 psi	90.0 MPa	ISO 178
Impact	Typical Value (English)	Typical Value (SI)	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-22°F (-30°C)	1.3 ft·lb/in ²	2.7 kJ/m ²	
73°F (23°C)	2.4 ft·lb/in ²	5.0 kJ/m ²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-22°F (-30°C)	26 ft·lb/in ²	54 kJ/m ²	
73°F (23°C)	No Break	No Break	
Thermal	Typical Value (English)	Typical Value (SI)	Test Method
Heat Deflection Temperature			ISO 75-2/B
66 psi (0.45 MPa), Unannealed	338 °F	170 °C	
Heat Deflection Temperature			ISO 75-2/A
264 psi (1.8 MPa), Unannealed	149 °F	65.0 °C	
Maximum Use Temperature			IEC 60216
-- ⁴	167 °F	75 °C	
Short Time	347 °F	175 °C	
Melting Temperature (DSC)	433 °F	223 °C	ISO 3146
Electrical	Typical Value (English)	Typical Value (SI)	Test Method
Surface Resistivity	1.0E+14 ohms	1.0E+14 ohms	IEC 60093
Volume Resistivity	1.0E+15 ohms·cm	1.0E+15 ohms·cm	IEC 60093

Notes

¹ Typical values are not to be construed as specifications.

² $\pm 0.03 \text{ g/cm}^3$

³ 96% H₂SO₄

⁴ Continuous (GTP 50% Tensile)