



Bergamid™ B70 G15 soul VN7289 CF TM-Z SO6

Polyamide 6

Key Characteristics

General	
Material Status	• Commercial: Active
Regional Availability	• Africa & Middle East • Europe • Asia Pacific • North America
Filler / Reinforcement	• Glass Fiber, 15% Filler by Weight
Features	• Good Color Stability • High Impact Resistance • High Heat Resistance • UV Resistant
RoHS Compliance	• RoHS Compliant
Forms	• Pellets

Technical Properties ¹

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density ² (73°F (23°C))	1.17 g/cm ³	1.17 g/cm ³	DIN 53479
Melt Mass-Flow Rate (MFR) (235°C/2.16 kg)	> 6.0 g/10 min	> 6.0 g/10 min	ISO 1133
Melt Volume-Flow Rate (MVR) (235°C/2.16 kg)	> 5.00 cm ³ /10min	> 5.00 cm ³ /10min	ISO 1133
Molding Shrinkage - Flow (0.0787 in (2.00 mm))	3.0E-3 to 4.6E-3 in/in	0.30 to 0.46 %	ASTM D955
Molding Shrinkage - Across Flow (0.0787 in (2.00 mm))	7.5E-3 to 8.8E-3 in/in	0.75 to 0.88 %	ASTM D955
Ash Content	15 %	15 %	ISO 3451
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	653000 to 725000 psi	4500 to 5000 MPa	
Tensile Stress			ISO 527-2/5
Break, 73°F (23°C), 0.157 in (4.00 mm)	14500 psi	100 MPa	
Tensile Strain			ISO 527-2/5
Break, 73°F (23°C), 0.157 in (4.00 mm)	> 4.0 %	> 4.0 %	
Impact	Typical Value (English)	Typical Value (SI)	Test Method
Charpy Notched Impact Strength (73°F (23°C))	> 7.1 ft·lb/in ²	> 15 kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength 73°F (23°C)	> 29 ft·lb/in ²	> 60 kJ/m ²	ISO 179/1eU
Thermal	Typical Value (English)	Typical Value (SI)	Test Method
Heat Deflection Temperature 66 psi (0.45 MPa), Unannealed	401 °F	205 °C	ISO 75-2/B
Maximum Use Temperature			IEC 60216
... ³	203 °F	95 °C	
Short Time	374 °F	190 °C	
Melting Temperature (DSC)	433 °F	223 °C	ISO 3146
Electrical	Typical Value (English)	Typical Value (SI)	Test Method
Surface Resistivity	1.0E+12 ohms	1.0E+12 ohms	IEC 60093
Volume Resistivity	1.0E+13 ohms·cm	1.0E+13 ohms·cm	IEC 60093

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Notes¹ Typical values are not to be construed as specifications.² ±0.03 g/cm³³ Continuous (GTP 50% Tensile)**CONTACT INFORMATION****Americas**United States - Avon Lake
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