

Bergamid™ A70

Polyamide 66

Key Characteristics

Product Description	
PA66 unreinforced general-purpose injection molding grade	
General	
Material Status	• Commercial: Active
Regional Availability	• Africa & Middle East • Asia Pacific • Europe
RoHS Compliance	• RoHS Compliant
Automotive Specifications	• GM QK 002911 E Color: SO2 Black
Appearance	• Opaque
Forms	• Pellets

Technical Properties ¹

Physical	Dry	Conditioned	Unit	Test Method
Density ²	1.13	1.13	g/cm ³	DIN 53479
K-Value ³	74.0 to 78.0	74.0 to 78.0		
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus (73°F (23°C))	232000 (1600)	232000 (1600)	psi (MPa)	ISO 527-1/1
Tensile Stress (Yield, 73°F (23°C))	8700 (60.0)	8700 (60.0)	psi (MPa)	ISO 527-2/50
Tensile Strain (Yield, 73°F (23°C))	25	25	%	ISO 527-2/50
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-22°F (-30°C)	4.0 (8.4)	4.0 (8.4)	ft·lb/in ² (kJ/m ²)	
73°F (23°C)	25 (53)	25 (53)	ft·lb/in ² (kJ/m ²)	
Charpy Unnotched Impact Strength				ISO 179/1eU
-22°F (-30°C)	No Break	No Break		
73°F (23°C)	No Break	No Break		

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Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load				ISO 75-2/B
66 psi (0.45 MPa), Unannealed	428 (220)	428 (220)	°F (°C)	
Deflection Temperature Under Load				ISO 75-2/A
264 psi (1.8 MPa), Unannealed	176 (80.0)	176 (80.0)	°F (°C)	
Maximum Use Temperature				IEC 60216
-- ⁴	212 (100)	212 (100)	°F (°C)	
Short Time	392 (200)	392 (200)	°F (°C)	
Melting Temperature (DSC)	502 (261)	502 (261)	°F (°C)	ISO 3146
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	1.0E+10	1.0E+10	ohms	IEC 60093
Volume Resistivity	1.0E+12	1.0E+12	ohms·cm	IEC 60093
Electric Strength	--	2000 (80)	V/mil (kV/mm)	IEC 60243-1
Relative Permittivity (1 MHz)	5.00	5.00		IEC 60250
Dissipation Factor (1 MHz)	0.20	0.20		IEC 60250
Comparative Tracking Index (Solution A)	600	600	V	IEC 60112

Notes

¹ Typical values are not to be construed as specifications.

² ±0.03 g/cm³

³ 96% H₂SO₄

⁴ Continuous (GTP 50% Tensile)

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