



Bergamid™ A70 G50 U

Polyamide 66

Key Characteristics

General	
Material Status	• Commercial: Active
Regional Availability	• Europe
Filler / Reinforcement	• Glass Fiber, 50% Filler by Weight
Features	• Flame Retardant • Good Dimensional Stability
RoHS Compliance	• RoHS Compliant
Forms	• Pellets

Technical Properties ¹

Physical	Dry	Conditioned	Unit	Test Method
Density ² (73°F (23°C))	1.80	--	g/cm ³	DIN 53479
Ash Content	> 50	--	%	ISO 3451
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus				ISO 527-2/1
73°F (23°C), 0.157 in (4.00 mm)	2.54E+6 (17500)	2.10E+6 (14500)	psi (MPa)	
Tensile Stress				ISO 527-2/5
Break, 73°F (23°C), 0.157 in (4.00 mm)	26100 (180)	23200 (160)	psi (MPa)	
Tensile Strain				ISO 527-2/5
Break, 73°F (23°C), 0.157 in (4.00 mm)	2.0	3.0	%	
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179
-22°F (-30°C)	3.3 (7.0)	--	ft·lb/in ² (kJ/m ²)	
73°F (23°C)	4.0 (8.5)	--	ft·lb/in ² (kJ/m ²)	
Charpy Unnotched Impact Strength				ISO 179
-22°F (-30°C)	24 (50)	--	ft·lb/in ² (kJ/m ²)	
73°F (23°C)	26 (55)	--	ft·lb/in ² (kJ/m ²)	
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				ISO 75-2/B
66 psi (0.45 MPa), Unannealed	482 (250)	--	°F (°C)	
Maximum Use Temperature				IEC 60216
-- ³	248 (120)	--	°F (°C)	
Short Time	428 (220)	--	°F (°C)	
Melting Temperature (DSC)	502 (261)	--	°F (°C)	ISO 3146

Copyright © 2016 PolyOne Corporation. PolyOne makes no representations, guarantees, or warranties of any kind with respect to the Information contained in this document about its accuracy, suitability for particular applications, or the results obtained or obtainable using the information. Some of the Information arises from laboratory work with small-scale equipment which may not provide a reliable indication of performance or properties obtained or obtainable on larger-scale equipment. Values reported as "typical" or stated without a range do not state minimum or maximum properties; consult your sales representative for property ranges and min/max specifications. Processing conditions can cause material properties to shift from the values stated in the Information. PolyOne makes no warranties or guarantees respecting suitability of either PolyOne's products or the Information for your process or end-use application. You have the responsibility to conduct full-scale end-product performance testing to determine suitability in your application, and you assume all risk and liability arising from your use of the Information and/or use or handling of any product. POLYONE MAKES NO WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, either with respect to the Information or products reflected by the Information. This data sheet shall NOT operate as permission, recommendation, or inducement to practice any patented invention without permission of the patent owner.

Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	1.0E+13	--	ohms	IEC 60093
Volume Resistivity	1.0E+15	--	ohms·cm	IEC 60093
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating				Internal Method
0.03 to 0.12 in (0.8 to 3.0 mm), ALL	V-0	--		
Glow Wire Flammability Index				IEC 60695-2-12
0.03 to 0.12 in (0.8 to 3.0 mm)	1760 (960)	--	°F (°C)	

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
+1 440 930 1000United States - McHenry
+1 815 385 8500**Asia**China - Guangzhou
+86 20 8732 7260China - Shenzhen
+86 755 2969 2888China - Suzhou
+86 512 6823 24 38China - Suzhou
+86 512 6265 2600Hong Kong -
+852 2690 5332Taiwan - Yonghe City,
+886 9396 99740, +886 2929 1849**Europe**Germany - Gaggenau
+49 7225 6802 0Spain - Barbastro (Huesca)
+34 974 310 314*Beyond Polymers.**Better Business Solutions.™*

www.polyone.com

PolyOne Americas33587 Walker Road
Avon Lake, Ohio 44012
United States
+1 440 930 1000
+1 866 POLYONE**PolyOne Asia**No. 88 Guoshoujing Road
Z.J Hi-tech Park, Pudong
Shanghai, 201203, China
+86 21 5080 1188**PolyOne Europe**6 Giallewee
+352 269 050 35

Copyright ©, 2016 PolyOne Corporation. PolyOne makes no representations, guarantees, or warranties of any kind with respect to the Information contained in this document about its accuracy, suitability for particular applications, or the results obtained or obtainable using the information. Some of the Information arises from laboratory work with small-scale equipment which may not provide a reliable indication of performance or properties obtained or obtainable on larger-scale equipment. Values reported as "typical" or stated without a range do not state minimum or maximum properties; consult your sales representative for property ranges and min/max specifications. Processing conditions can cause material properties to shift from the values stated in the Information. PolyOne makes no warranties or guarantees respecting suitability of either PolyOne's products or the Information for your process or end-use application. You have the responsibility to conduct full-scale end-product performance testing to determine suitability in your application, and you assume all risk and liability arising from your use of the Information and/or use or handling of any product. POLYONE MAKES NO WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, either with respect to the Information or products reflected by the Information. This data sheet shall NOT operate as permission, recommendation, or inducement to practice any patented invention without permission of the patent owner.