

Bergamid™ B70 G/GK30 TM-Y UV NC

Polyamide 6

PolyOne Corporation

Message:

6016158

General Information			
Filler / Reinforcement	Glass Bead\Glass Fiber,30% Filler by Weight		
Features	Good Dimensional Stability		
	Good Impact Resistance		
	Good Stiffness		
	Good UV Resistance		
RoHS Compliance	RoHS Compliant		
Appearance	Natural Color		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity ¹	1.30	g/cm ³	ISO 1183
Molding Shrinkage - Flow ² (23°C, 4.00 mm, Injection Molded)	0.40 to 0.80	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C, 4.00 mm, Injection Molded)	5400	MPa	ISO 527-2/1
Tensile Strength ³ (23°C, 4.00 mm)	90.0	MPa	ISO 527
Tensile Elongation ⁴ (Break, 23°C, 4.00 mm)	3.0	%	ISO 527
Flexural Modulus (23°C)	4100	MPa	ISO 178
Flexural Stress (23°C)	115	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			
-30°C	6.5	kJ/m ²	ISO 179
23°C	12	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength			ISO 179
-30°C, Injection Molded	55	kJ/m ²	
23°C, Injection Molded	65	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ISO 75-2
0.45 MPa, Unannealed, 4.00 mm	205	°C	
1.8 MPa, Unannealed, 4.00 mm	190	°C	
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+15	ohms	ASTM D257

Volume Resistivity	1.0E+15	ohms·cm	ASTM D257
Flammability	Nominal Value	Unit	Test Method
Flame Rating (3.20 mm, ALL)	HB		Internal Method
Injection	Nominal Value	Unit	
Drying Temperature	80.0	°C	
Drying Time	4.0	hr	
Processing (Melt) Temp	240 to 280	°C	
Mold Temperature	65.0 to 85.0	°C	
NOTE			
1.	±0.03		
2.	Bergmann Method		
3.	5.0 mm/min		
4.	5.0 mm/min		

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