

Bergamid™ B70 VN4805 LS PM-Z BK

Polyamide 6
PolyOne Corporation

Message:
6013041

General Information				
Features		Impact Modified		
		Laser Markable		
RoHS Compliance		RoHS Compliant		
Forms		Pellets		
Processing Method		Injection Molding		
Physical	Dry	Conditioned	Unit	Test Method
Density ¹ (23°C)	1.07	1.07	g/cm ³	ISO 1183
Molding Shrinkage - Flow ² (23°C, 4.00 mm)	2.0	--	%	ISO 294-4
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus (23°C, 4.00 mm, Injection Molded)	2000	1050	MPa	ISO 527-2/50
Tensile Stress (Yield, 23°C, 4.00 mm, Injection Molded)	43.0	28.0	MPa	ISO 527-2/50
Tensile Strain				ISO 527-2/50
Yield, 23°C, 4.00 mm	3.0	4.0	%	
Break, 23°C, 4.00 mm, Injection Molded	> 80	> 150	%	
Flexural Modulus (23°C, Injection Molded)	1200	450	MPa	ISO 178
Flexural Stress (23°C, Injection Molded)	42.0	13.0	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength (23°C, Injection Molded)	89	93	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength				ISO 179
-30°C, Injection Molded	No Break	No Break		
23°C, Injection Molded	No Break	No Break		
Thermal	Dry	Conditioned	Unit	Test Method
Vicat Softening Temperature	165	--	°C	ISO 306/B
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	1.0E+15	1.0E+15	ohms	ASTM D257

Volume Resistivity	1.0E+15	1.0E+15	ohms·cm	ASTM D257
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating (3.20 mm, ALL)	HB	HB		UL 94
Injection	Dry	Unit		
Drying Temperature	60.0		°C	
Drying Time	4.0		hr	
Processing (Melt) Temp	240 to 260		°C	
Mold Temperature	60.0 to 80.0		°C	
NOTE				
1.	±0.02			
2.	Bergmann method			

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