

Bergamid™ B70 G30 grey VN7445CF

Polyamide 6

PolyOne Corporation

Message:

Bergamid™ B70 G30 grey VN7445CF is a Polyamide 6 (Nylon 6) product filled with 30% glass fiber. It can be processed by injection molding and is available in Europe.

Characteristics include:

Flame Rated

RoHS Compliant

Good Dimensional Stability

Good Stiffness

General Information				
Filler / Reinforcement		Glass Fiber,30% Filler by Weight		
Features		Good Dimensional Stability		
		Good Flow		
		Good Stiffness		
RoHS Compliance		RoHS Compliant		
Forms		Pellets		
Processing Method		Injection Molding		
Physical	Dry	Conditioned	Unit	Test Method
Specific Gravity ¹	1.35	--	g/cm ³	DIN 53479
Molding Shrinkage - Flow ² (23°C, 4000 mm)	0.10 to 0.60	--	%	ISO 294-4
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus (23°C, 4.00 mm, Injection Molded)	7800	6000	MPa	ISO 527-2/1
Tensile Strength ³ (23°C, 4.00 mm)	120	100	MPa	ISO 527
Tensile Elongation ⁴ (Break, 23°C, 4.00 mm)	2.0	3.5	%	ISO 527
Flexural Modulus (23°C)	7000	--	MPa	ISO 178
Flexural Stress (23°C)	175	--	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength (23°C, Injection Molded)	6.0	15	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength (23°C, Injection Molded)	48	> 60	kJ/m ²	ISO 179
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature (8.0 MPa, Unannealed)	210	--	°C	ISO 75-2/C

Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	1.0E+13	1.0E+10	ohms	IEC 60093
Volume Resistivity	1.0E+15	1.0E+12	ohms·cm	IEC 60093
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating (0.800 to 3.00 mm, ALL)	HB	HB		Internal Method
Injection	Dry	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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