

Bergamid™ A65 GK15 natur

Polyamide 66

PolyOne Corporation

Message:

Bergamid™ A65 GK15 natur is a Polyamide 66 (Nylon 66) product filled with 15% glass bead. It is available in Europe. Primary characteristic: flame rated.

General Information			
Filler / Reinforcement	Glass Bead, 15% Filler by Weight		
Features	General Purpose		
	Good Flow		
Forms	Granules		
Physical	Nominal Value	Unit	Test Method
Density ¹ (23°C)	1.23	g/cm ³	DIN 53479
Molding Shrinkage ² (23°C, 4.00 mm)	1.4 to 1.9	%	ISO 294-4
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus ³ (23°C, 4.00 mm, Injection Molded)	4100	MPa	ISO 527-2/1
Tensile Stress ⁴ (Break, 23°C, 4.00 mm, Injection Molded)	60.0	MPa	ISO 527-2/5
Tensile Strain ⁵ (Break, 23°C, 4.00 mm, Injection Molded)	1.5	%	ISO 527-2/5
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			
-30°C, Injection Molded	1.4	kJ/m ²	ISO 179
23°C ⁶	2.5	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength			
-30°C, Injection Molded	15	kJ/m ²	ISO 179
23°C, Injection Molded ⁷	15	kJ/m ²	ISO 179/1eA
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	224	°C	ISO 75-2/B
1.8 MPa, Unannealed	75.5	°C	ISO 75-2/A
Maximum Use Temperature			
long term (GTP 50% tensile)	85	°C	IEC 216
short time	180	°C	IEC 60216
Melting Temperature (DSC)	261	°C	ISO 3146
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity			IEC 93
-- ⁸	1.0E+10	ohms	
-- ⁹	1.0E+13	ohms	

Volume Resistivity			IEC 93
-- 10	1.0E+12	ohms·cm	
-- 11	1.0E+15	ohms·cm	
Dissipation Factor ¹² (1 MHz)	1.0E-4		IEC 60250
Comparative Tracking Index ¹³ (Solution A)	500	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.60 mm)	HB		UL 94
NOTE			
1.	±0.03		
2.	Bergmann method		
3.	dry		
4.	dry		
5.	dry		
6.	dry		
7.	dry		
8.	air humidity		
9.	dry		
10.	air humidity		
11.	dry		
12.	air humidity		
13.	dry		

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