

Bergamid™ B700 UF black

Polyamide 6
PolyOne Corporation

Message:

Bergamid™ B700 UF black is a Polyamide 6 (Nylon 6) product. It can be processed by extrusion or injection molding and is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America.

Characteristics include:

- Flame Rated
- RoHS Compliant
- Flame Retardant
- Halogen Free

General Information				
Features		Flame Retardant		
		Halogen Free		
		Low (to None) Phosphorus Content		
RoHS Compliance		RoHS Compliant		
Forms		Pellets		
Processing Method		Extrusion		
		Injection Molding		
Physical	Dry	Conditioned	Unit	Test Method
Density ¹	1.18	1.18	g/cm ³	DIN 53479
K-Value ²	74.0 to 78.0	74.0 to 78.0		
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus (23°C)	1500	1500	MPa	ISO 527-2/1
Tensile Stress (Break, 23°C)	55.0	55.0	MPa	ISO 527-2/5
Tensile Strain (Break, 23°C)	20	20	%	ISO 527-2/5
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	6.3	6.3	kJ/m ²	
23°C	8.4	8.4	kJ/m ²	
Charpy Unnotched Impact Strength (23°C)		No Break		ISO 179/1eU
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	190	190	°C	ISO 75-2/B
1.8 MPa, Unannealed	80.0	80.0	°C	ISO 75-2/A
Maximum Use Temperature				IEC 60216

-- ³	85	85	°C	
Short Time	160	160	°C	
Melting Temperature (DSC)	223	223	°C	ISO 3146
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	1.0E+10	1.0E+10	ohms	IEC 60093
Volume Resistivity	1.0E+12	1.0E+12	ohms·cm	IEC 60093
Electric Strength	45	45	kV/mm	IEC 60243-1
Relative Permittivity (1 MHz)	7.00	7.00		IEC 60250
Comparative Tracking Index (Solution A)	600	600	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating (0.800 mm, ALL)	V-0	V-0		Internal Method
Glow Wire Ignition Temperature ⁴ (3.00 mm)	960	960	°C	IEC 60695-2-13
NOTE				
1.	±0.03 g/cm ³			
2.	96% H2SO4			
3.	Continuous (GTP 50% Tensile)			
4.	0.8 mm wire			

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