

Bergamid™ B65 G/Mi20 UF

Polyamide 6

PolyOne Corporation

Message:

Bergamid™ B65 G/Mi20 UF is a Polyamide 6 (Nylon 6) product filled with 20% glass\mineral. It is available in Africa & Middle East, Asia Pacific, or Europe.

Characteristics include:

Flame Rated

RoHS Compliant

Flame Retardant

Halogen Free

General Information			
Filler / Reinforcement	Glass\Mineral,20% Filler by Weight		
Features	Flame Retardant		
	Halogen Free		
	Low (to None) Phosphorus Content		
RoHS Compliance	RoHS Compliant		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Density ¹	1.37	g/cm ³	DIN 53479
Ash Content	20	%	ISO 3451
Maximum Use Temperature			IEC 60216
-- ²	95	°C	
Short Time	190	°C	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	5700	MPa	ISO 527-2/1
Tensile Stress (Break, 23°C)	90.0	MPa	ISO 527-2/5
Tensile Strain (Break, 23°C)	3.0	%	ISO 527-2/5
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	5.0	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	45	kJ/m ²	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	205	°C	ISO 75-2/B
1.8 MPa, Unannealed	175	°C	ISO 75-2/A
Melting Temperature (DSC)	223	°C	ISO 3146
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	> 1.0E+12	ohms	IEC 60093
Volume Resistivity	> 1.0E+14	ohms · cm	IEC 60093
Comparative Tracking Index (Solution A)	> 550	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method

Flame Rating (0.800 to 3.00 mm, ALL)	V-2	Internal Method
Glow Wire Flammability Index (0.800 to 3.00 mm)	960	°C IEC 60695-2-12
Injection	Nominal Value	Unit
Drying Temperature	80.0	°C
Drying Time	3.0 to 4.0	hr
Processing (Melt) Temp	240	°C
Mold Temperature	60.0 to 80.0	°C
NOTE		
1.	±0.03 g/cm ³	
2.	Continuous (GTP 50% Tensile)	

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