

Grilon® BGM-65 X V0

Polyamide 6
EMS-GRIVORY

Message:

Grilon® BGM-65 X V0 is a Polyamide 6 (Nylon 6) material filled with 65% glass\mineral. It is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America for injection molding.

Important attributes of Grilon® BGM-65 X V0 are:

Flame Rated
RoHS Compliant
Flame Retardant

Typical applications include:

Electrical/Electronic Applications
Appliances
Automotive

General Information			
UL YellowCard	E53898-243864	E132701-100536662	E132701-237888
Filler / Reinforcement	Glass\Mineral,65% Filler by Weight		
Additive	Flame Retardant		
Features	Flame Retardant		
Uses	Appliance Components		
	Automotive Applications		
	Connectors		
	Electrical/Electronic Applications		
RoHS Compliance	RoHS Compliant		
Forms	Granules		
Processing Method	Injection Molding		
Multi-Point Data	Isothermal Stress vs. Strain (ISO 11403-1)		
	Secant Modulus vs. Strain (ISO 11403-1)		
	Shear Modulus vs. Temperature (ISO 11403-1)		

Physical	Dry	Conditioned	Unit	Test Method
Density	1.69	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	0.60	--	%	
Flow	0.20	--	%	
Water Absorption				ISO 62
Saturation, 23°C	5.0	--	%	
Equilibrium, 23°C, 50% RH	1.5	--	%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	11500	7100	MPa	ISO 527-2

Tensile Stress (Break)	120	90.0	MPa	ISO 527-2
Tensile Strain (Break)	1.0	3.0	%	ISO 527-2
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	3.0	3.0	kJ/m²	
23°C	3.0	3.0	kJ/m²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	15	15	kJ/m²	
23°C	25	25	kJ/m²	
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	75.0	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	160	--	°C	ISO 75-2/A
Continuous Use Temperature				Internal Method
-- ¹	80.0 to 110	--	°C	
-- ²	160	--	°C	
Melting Temperature ³	222	--	°C	ISO 11357-3
CLTE				ISO 11359-2
Flow	3.0E-5	--	cm/cm/°C	
Transverse	6.0E-5	--	cm/cm/°C	
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	--	1.0E+12	ohms	IEC 60093
Volume Resistivity	1.0E+14	1.0E+13	ohms·cm	IEC 60093
Electric Strength	33	29	kV/mm	IEC 60243-1
Relative Permittivity (100 Hz)	3.00	3.00		IEC 60250
Dissipation Factor (100 Hz)	1.0E-3	1.0E-3		IEC 60250
Comparative Tracking Index	--	500	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Flammability Classification				IEC 60695-11-10, -20
1.50 mm	V-0	--		
3.00 mm	V-0	--		
Oxygen Index	65	--	%	ISO 4589-2
Additional Information	Dry	Conditioned		Test Method
ISO Type	PA6, MFHR, 14-110, (MD+GF)65-X			ISO 1874
NOTE				
1.	Long Term			
2.	Short Term			
3.	10°C/min			

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