

Grilon® BGM-40 X

Polyamide 6
EMS-GRIVORY

Message:

Grilon® BGM-40 X is a Polyamide 6 (Nylon 6) material filled with 40% 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-40 X are:

Flame Rated

RoHS Compliant

Typical application of Grilon® BGM-40 X: Automotive

General Information				
Filler / Reinforcement		Glass\Mineral,40% Filler by Weight		
Uses		Automotive Applications		
RoHS Compliance		RoHS Compliant		
Forms		Granules		
Processing Method		Injection Molding		
Multi-Point Data		Shear Modulus vs. Temperature (ISO 11403-1)		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.44	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	0.60	--	%	
Flow	0.20	--	%	
Water Absorption				ISO 62
Saturation, 23°C	7.0	--	%	
Equilibrium, 23°C, 50% RH	2.0	--	%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	10000	5000	MPa	ISO 527-2
Tensile Stress (Break)	120	55.0	MPa	ISO 527-2
Tensile Strain (Break)	2.5	6.0	%	ISO 527-2
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	3.0	3.0	kJ/m ²	
23°C	5.0	7.0	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	35	45	kJ/m ²	
23°C	40	50	kJ/m ²	
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				

1.8 MPa, Unannealed	195	--	°C	ISO 75-2/A
8.0 MPa, Unannealed	90.0	--	°C	ISO 75-2/C
Continuous Use Temperature				Internal Method
-- ¹	100 to 120	--	°C	
-- ²	180	--	°C	
Melting Temperature ³	222	--	°C	ISO 11357-3
CLTE				ISO 11359-2
Flow	3.0E-5	--	cm/cm/°C	
Transverse	8.0E-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+12	ohms·cm	IEC 60093
Electric Strength	35	32	kV/mm	IEC 60243-1
Comparative Tracking Index	--	525	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Flammability Classification (0.800 mm)	HB	--		IEC 60695-11-10, -20
Additional Information	Dry	Conditioned		Test Method
ISO Type	PA6, MHR, 14-100N, (GF+MD)40X			ISO 1874
NOTE				
1.	Long Term			
2.	Short Term			
3.	10°C/min			

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