

Grilon® BG-35

Polyamide 6

EMS-GRIVORY

Message:

Grilon® BG-35 is a Polyamide 6 (Nylon 6) material filled with 35% glass fiber. It is available in Asia Pacific, Europe, or North America for injection molding.

Primary attribute of Grilon® BG-35: Flame Rated.

Typical applications include:

Automotive

Appliances

Electrical/Electronic Applications

General Information				
Filler / Reinforcement		Glass Fiber,35% Filler by Weight		
Uses		Appliance Components		
		Automotive Applications		
		Automotive Interior Parts		
		Electrical/Electronic Applications		
Forms		Granules		
Processing Method		Injection Molding		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.41	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	0.70	--	%	
Flow	0.10	--	%	
Water Absorption				ISO 62
Saturation, 23°C	7.0	--	%	
Equilibrium, 23°C, 50% RH	2.0	--	%	
Hardness	Dry	Conditioned	Unit	Test Method
Ball Indentation Hardness	240	110	MPa	ISO 2039-1
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	11500	6900	MPa	ISO 527-2
Tensile Stress (Break)	225	145	MPa	ISO 527-2
Tensile Strain (Break)	3.0	5.0	%	ISO 527-2
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	8.0	9.0	kJ/m ²	
23°C	11	20	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	65	70	kJ/m ²	

23°C	70	75	kJ/m ²	
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
1.8 MPa, Unannealed	205	--	°C	ISO 75-2/A
8.0 MPa, Unannealed	165	--	°C	ISO 75-2/C
Maximum Use Temperature				
			Internal Method	
Long Term	100 to 120	--	°C	
Short Term	200	--	°C	
ISO Type	PA 6, MHR, 14-110N, GF 35	--		ISO 1874
Melting Temperature ¹	222	--	°C	ISO 11357-3
CLTE				ISO 11359-2
Flow	2.5E-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	33	kV/mm	IEC 60243-1
Comparative Tracking Index	--	500	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Flammability Classification (0.800 mm)	HB	--		IEC 60695-11-10, -20
NOTE				
1.	10°C/min			

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