

Grilon® BG-30 FR

Polyamide 6

EMS-GRIVORY

Message:

Grilon® BG-30 FR is a Polyamide 6 (Nylon 6) material filled with 30% glass fiber. It is available in Asia Pacific, Europe, or North America for injection molding.

Important attributes of Grilon® BG-30 FR are:

Flame Rated

Flame Retardant

Typical application of Grilon® BG-30 FR: Electrical/Electronic Applications

General Information				
Filler / Reinforcement		Glass Fiber,30% Filler by Weight		
Additive		Flame Retardant		
Features		Flame Retardant		
Uses		Electrical/Electronic Applications		
Forms		Granules		
Processing Method		Injection Molding		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.39	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	0.80	--	%	
Flow	0.40	--	%	
Water Absorption				ISO 62
Saturation, 23°C	7.0	--	%	
Equilibrium, 23°C, 50% RH	2.5	--	%	
Hardness	Dry	Conditioned	Unit	Test Method
Ball Indentation Hardness	165	70.0	MPa	ISO 2039-1
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	7000	4500	MPa	ISO 527-2
Tensile Stress (Break)	100	60.0	MPa	ISO 527-2
Tensile Strain (Break)	6.0	50	%	ISO 527-2
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	4.0	4.0	kJ/m ²	
23°C	6.0	6.0	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	50	40	kJ/m ²	
23°C	50 kJ/m ²	No Break		
Thermal	Dry	Conditioned	Unit	Test Method

Heat Deflection Temperature (1.8 MPa, Unannealed)	185	--	°C	ISO 75-2/A
Maximum Use Temperature				Internal Method
Long Term	80 to 110	--	°C	
Short Term	160	--	°C	
ISO Type	PA 6, MFHR, 14-070 N, GF 30	--		ISO 1874
Melting Temperature ¹	222	--	°C	ISO 11357-3
Flammability	Dry	Conditioned		Test Method
Flammability Classification (0.800 mm)	V-2	--		IEC 60695-11-10, -20
NOTE				

1. 10°C/min

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