

Grilon® BM-30

Polyamide 6
EMS-GRIVORY

Message:

Grilon® BM-30 is a Polyamide 6 (Nylon 6) material filled with 30% mineral. It is available in Asia Pacific, Europe, or North America for injection molding. Primary attribute of Grilon® BM-30: Flame Rated.
Typical applications include:
Automotive
Engineering/Industrial Parts
Tools

General Information				
Filler / Reinforcement		Mineral,30% Filler by Weight		
Uses		Automotive Applications		
		Automotive Interior Parts		
		Engineering Parts		
		Power/Other Tools		
Forms		Granules		
Processing Method		Injection Molding		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.38	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	0.90	--	%	
Flow	0.80	--	%	
Water Absorption				ISO 62
Saturation, 23°C	7.0	--	%	
Equilibrium, 23°C, 50% RH	1.8	--	%	
Hardness	Dry	Conditioned	Unit	Test Method
Ball Indentation Hardness	170	70.0	MPa	ISO 2039-1
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	6500	3000	MPa	ISO 527-2
Tensile Stress (Break)	90.0	40.0	MPa	ISO 527-2
Tensile Strain (Break)	3.0	40	%	ISO 527-2
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	2.0	2.0	kJ/m ²	
23°C	3.0	3.0	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	45	45	kJ/m ²	

23°C	45	100	kJ/m ²	
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	100	--	°C	ISO 75-2/A
Maximum Use Temperature				Internal Method
Long Term	100 to 120	--	°C	
Short Term	180	--	°C	
ISO Type	PA 6, MHR 14-060 N, MD 30	--		ISO 1874
Melting Temperature ¹	222	--	°C	ISO 11357-3
Flammability	Dry	Conditioned		Test Method
Flammability Classification (0.800 mm)	HB	--		IEC 60695-11-10, -20
NOTE				
1.	10°C/min			

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