

Grilon® BM-30 FR

Polyamide 6

EMS-GRIVORY

Message:

Grilon® BM-30 FR is a Polyamide 6 (Nylon 6) material filled with 30% mineral. It is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America for injection molding.

Important attributes of Grilon® BM-30 FR are:

Flame Rated

RoHS Compliant

Flame Retardant

Good UV Resistance

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

General Information				
UL YellowCard		E53898-592178		
Filler / Reinforcement		Mineral,30% Filler by Weight		
Additive		Flame Retardant		
Features		Flame Retardant		
		Good UV Resistance		
Uses		Connectors		
		Electrical/Electronic Applications		
RoHS Compliance		RoHS Compliant		
Forms		Granules		
Processing Method		Injection Molding		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.37	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	0.90	--	%	
Flow	0.80	--	%	
Water Absorption				ISO 62
Saturation, 23°C	8.0	--	%	
Equilibrium, 23°C, 50% RH	3.0	--	%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	6400	2800	MPa	ISO 527-2
Tensile Stress				ISO 527-2
Yield	85.0	40.0	MPa	
Break	85.0	34.0	MPa	
Tensile Strain (Yield)	3.0	6.0	%	ISO 527-2
Nominal Tensile Strain at Break	2.5	45	%	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	4.0	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	35	35	kJ/m ²	
23°C	40	85	kJ/m ²	
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
1.8 MPa, Unannealed	100	--	°C	ISO 75-2/A
8.0 MPa, Unannealed	50.0	--	°C	ISO 75-2/C
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	7.0E-5	--	cm/cm/°C	
Transverse	8.0E-5	--	cm/cm/°C	
Flammability	Dry	Conditioned		Test Method
Flammability Classification (0.800 mm)	V-2	--		IEC 60695-11-10, -20
Additional Information	Dry	Conditioned		Test Method
ISO Type	PA 6, MFHR, 14-060N, MD 30	--		ISO 1874
NOTE				
1.	Long Term			
2.	Short Term			
3.	10°C/min			

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