

Grilon® BG-60 FC

Polyamide 6
EMS-GRIVORY

Message:

Grilon® BG-60 FC is a Polyamide 6 (Nylon 6) material filled with 60% glass fiber. It is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America for injection molding.

Important attributes of Grilon® BG-60 FC are:

- Flame Rated
- RoHS Compliant
- Good Mold Release

Typical applications include:

- Automotive
- Electrical/Electronic Applications
- Appliances
- Consumer Goods
- Engineering/Industrial Parts

General Information				
Filler / Reinforcement		Glass Fiber,60% Filler by Weight		
Features		Good Flow		
		Good Mold Release		
Uses		Appliance Components		
		Automotive Applications		
		Automotive Interior Parts		
		Connectors		
		Consumer Applications		
		Electrical/Electronic Applications		
		Engineering Parts		
		Household Goods		
		Industrial Applications		
		Power/Other Tools		
RoHS Compliance		RoHS Compliant		
Forms		Granules		
Processing Method		Injection Molding		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.69	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	0.50	--	%	
Flow	0.10	--	%	
Water Absorption				ISO 62
Saturation, 23°C	4.2	--	%	

Equilibrium, 23°C, 50% RH	1.1	--	%	
Hardness	Dry	Conditioned	Unit	Test Method
Ball Indentation Hardness	273	156	MPa	ISO 2039-1
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	19000	13500	MPa	ISO 527-2
Tensile Stress (Break)	245	160	MPa	ISO 527-2
Tensile Strain (Break)	3.2	3.4	%	ISO 527-2
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	11	12	kJ/m ²	
23°C	16	26	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	90	90	kJ/m ²	
23°C	91	96	kJ/m ²	
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
1.8 MPa, Unannealed	215	--	°C	ISO 75-2/A
8.0 MPa, Unannealed	190	--	°C	ISO 75-2/C
Continuous Use Temperature				Internal Method
-- ¹	130 to 150	--	°C	
-- ²	200	--	°C	
Melting Temperature ³	223	--	°C	ISO 11357-3
CLTE				ISO 11359-2
Flow	1.4E-5	--	cm/cm/°C	
Transverse	1.0E-4	--	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	36	33	kV/mm	IEC 60243-1
Comparative Tracking Index	--	475	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	PA 6, MHR, 10-190N, GF 60	--		ISO 1874
NOTE				
1.	Long Term			
2.	Short Term			

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