Grilon® BG-50 FC

Polyamide 6

EMS-GRIVORY

Message:

Grilon® BG-50 FC is a Polyamide 6 (Nylon 6) material filled with 50% 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-50 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,50% 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 Sporting Goods
RoHS Compliance	RoHS Compliant
Forms	Granules
Processing Method	Injection Molding

Physical	Dry	Conditioned	Unit	Test Method
Density	1.58	--	g/cm³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	0.50	--	%	
Flow	0.10	--	%	
Water Absorption				ISO 62
Saturation, 23°C	5.0	--	%	

Equilibrium, 23°C, 50% RH	1.5	--	%	
Mechanical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Tensile Modulus	17200	11500	MPa	ISO 527-2
Tensile Stress (Break)	240	155	MPa	ISO 527-2
Tensile Strain (Break)	3.0	6.0	%	ISO 527-2
Impact	**Dry**	**Conditioned**	**Unit**	**Test Method**
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	11	12	kJ/m²	
23°C	15	25	kJ/m²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	85	90	kJ/m²	
23°C	90	95	kJ/m²	
Thermal	**Dry**	**Conditioned**	**Unit**	**Test Method**
Heat Deflection Temperature				
1.8 MPa, Unannealed	215	--	°C	ISO 75-2/A
8.0 MPa, Unannealed	180	--	°C	ISO 75-2/C
Continuous Use Temperature				Internal Method
-- [1]	100 to 120	--	°C	
-- [2]	200	--	°C	
Melting Temperature [3]	222	--	°C	ISO 11357-3
Flammability	**Dry**	**Conditioned**		**Test Method**
Flammability Classification (0.800 mm)	HB	--		IEC 60695-11-10, -20
Additional Information	**Dry**	**Conditioned**		**Test Method**
ISO Type	PA 6, MHR, 12-190N, GF50	--		ISO 1874
NOTE				
1.	Long Term			
2.	Short Term			
3.	10°C/min			

Recommended distributors for this material

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WECHAT