Grilon® BG-40 HM

Polyamide 6

EMS-GRIVORY

Message:

Grilon® BG-40 HM is a Polyamide 6 (Nylon 6) material filled with 40% 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-40 HM are:
Flame Rated
RoHS Compliant
Heat Stabilizer
Impact Resistant
Typical applications include:
Automotive
Appliances
Electrical/Electronic Applications

General Information	
UL YellowCard	E53898-243860
Filler / Reinforcement	Glass Fiber,40% Filler by Weight
Additive	Heat Stabilizer
Features	Heat Stabilized High Impact Resistance
Uses	Appliance Components Automotive Applications Automotive Interior Parts Electrical/Electronic Applications
RoHS Compliance	RoHS Compliant
Forms	Granules
Processing Method	Injection Molding
Multi-Point Data	Isothermal Stress vs. Strain (ISO 11403-1) Secant Modulus vs. Strain (ISO 11403-1) Viscosity vs. Shear Rate (ISO 11403-2)

Physical	Dry	Conditioned	Unit	Test Method
Density	1.40	--	g/cm³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	0.40	--	%	
Flow	0.10	--	%	
Water Absorption				ISO 62
Saturation, 23°C	5.0	--	%	
Equilibrium, 23°C, 50% RH	1.5	--	%	

Hardness	Dry	Conditioned	Unit	Test Method
Ball Indentation Hardness	200	130	MPa	ISO 2039-1
Mechanical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Tensile Modulus	12000	8500	MPa	ISO 527-2
Tensile Stress (Break)	150	130	MPa	ISO 527-2
Tensile Strain (Break)	3.0	5.0	%	ISO 527-2
Impact	**Dry**	**Conditioned**	**Unit**	**Test Method**
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	12	12	kJ/m^2	
23°C	15	20	kJ/m^2	
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	65	65	kJ/m^2	
23°C	70	70	kJ/m^2	
Thermal	**Dry**	**Conditioned**	**Unit**	**Test Method**
Heat Deflection Temperature				
1.8 MPa, Unannealed	195	--	°C	ISO 75-2/A
8.0 MPa, Unannealed	130	--	°C	ISO 75-2/C
Continuous Use Temperature				Internal Method
-- [1]	90.0 to 100	--	°C	
-- [2]	180	--	°C	
Melting Temperature [3]	222	--	°C	ISO 11357-3
CLTE				ISO 11359-2
Flow	1.5E-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+13	ohms·cm	IEC 60093
Electric Strength	41	38	kV/mm	IEC 60243-1
Comparative Tracking Index	--	550	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-HI, MH, 18-120, GF40	--		ISO 1874
NOTE				
1.	Long Term			
2.	Short Term			
3.	10°C/min			

Recommended distributors for this material

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