

Grilon® BGZ-50/2

Polyamide 6
EMS-GRIVORY

Message:

Grilon® BGZ-50/2 is a Polyamide 6 (Nylon 6) material filled with 50% glass fiber. It is available in Asia Pacific, Europe, or North America for injection molding.

Important attributes of Grilon® BGZ-50/2 are:

Flame Rated
RoHS Compliant
Impact Resistant

General Information	
UL YellowCard	E53898-243868
Filler / Reinforcement	Glass Fiber,50% Filler by Weight
Features	High Impact Resistance
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)

Physical	Dry	Conditioned	Unit	Test Method
Density	1.57	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	0.30	--	%	
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	280	170	MPa	ISO 2039-1
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	16000	10000	MPa	ISO 527-2
Tensile Stress (Break)	230	150	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/m ²	
23°C	15	25	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179/1eU

-30°C	90	95	kJ/m ²	
23°C	95	130	kJ/m ²	
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
1.8 MPa, Unannealed	210	--	°C	ISO 75-2/A
8.0 MPa, Unannealed	165	--	°C	ISO 75-2/C
Maximum Use Temperature				Internal Method
Long Term	100 to 120	--	°C	
Short Term	180	--	°C	
ISO Type	PA 6-HI, MHL, 18-160, GF50	--		ISO 1874
Melting Temperature ¹	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
NOTE				

1. 10°C/min

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