

Grilon® BG-30 EC

Polyamide 6
EMS-GRIVORY

Message:

Grilon® BG-30 EC is a Polyamide 6 (Nylon 6) material filled with 30% 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-30 EC are:

Flame Rated
RoHS Compliant
Antistatic
Conductive

General Information				
Filler / Reinforcement		Glass Fiber,30% Filler by Weight		
Additive		Antistatic		
Features		Antistatic		
		Electrically Conductive		
RoHS Compliance		RoHS Compliant		
Forms		Granules		
Processing Method		Injection Molding		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.62	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	0.70	--	%	
Flow	0.10	--	%	
Water Absorption				ISO 62
Saturation, 23°C	7.0	--	%	
Equilibrium, 23°C, 50% RH	2.0	--	%	
Hardness	Dry	Conditioned	Unit	Test Method
Ball Indentation Hardness	170	80.0	MPa	ISO 2039-1
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	9400	5000	MPa	ISO 527-2
Tensile Stress				ISO 527-2
Yield	115	80.0	MPa	
Break	100	80.0	MPa	
Tensile Strain (Yield)	3.0	5.0	%	ISO 527-2
Nominal Tensile Strain at Break	6.0	10	%	ISO 527-2
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA

-30°C	7.0	7.0	kJ/m²	
23°C	8.0	10	kJ/m²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	30	30	kJ/m²	
23°C	50	60	kJ/m²	
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	205	--	°C	ISO 75-2/A
Continuous Use Temperature				Internal Method
-- ¹	80.0 to 100	--	°C	
-- ²	160	--	°C	
Melting Temperature ³	222	--	°C	ISO 11357-3
CLTE				ISO 11359-2
Flow	2.0E-5	--	cm/cm/°C	
Transverse	1.0E-4	--	cm/cm/°C	
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	--	1.0E+5	ohms	IEC 60093
Volume Resistivity	2.5E+3	--	ohms·cm	IEC 60093
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, MHRZ, 14-090N, GF 30 X--			ISO 1874
NOTE				
1.	Long Term			
2.	Short Term			
3.	10°C/min			

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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China



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