

Grilon® BK-30

Polyamide 6

EMS-GRIVORY

Message:

Grilon® BK-30 is a Polyamide 6 (Nylon 6) material filled with 30% glass bead. It is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America for injection molding.

Important attributes of Grilon® BK-30 are:

- Flame Rated
- RoHS Compliant

Typical applications include:

- Automotive
- Appliances
- Consumer Goods
- Electrical/Electronic Applications
- Household Applications

General Information				
UL YellowCard		E53898-102148728		
Filler / Reinforcement		Glass Bead,30% Filler by Weight		
Uses		Appliance Components		
		Automotive Applications		
		Automotive Interior Parts		
		Consumer Applications		
		Electrical/Electronic Applications		
		Household Goods		
		Industrial Applications		
		Power/Other Tools		
		Sporting Goods		
RoHS Compliance		RoHS Compliant		
Forms		Granules		
Processing Method		Injection Molding		
Multi-Point Data		Shear Modulus vs. Temperature (ISO 11403-1)		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.34	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	1.0	--	%	
Flow	0.90	--	%	
Water Absorption				ISO 62
Saturation, 23°C	8.0	--	%	
Equilibrium, 23°C, 50% RH	2.0	--	%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	4300	1500	MPa	ISO 527-2

Tensile Stress				ISO 527-2
Yield	--	40.0	MPa	
Break	70.0	--	MPa	
Tensile Strain				ISO 527-2
Yield	--	10	%	
Break	5.0	--	%	
Nominal Tensile Strain at Break	--	> 50	%	ISO 527-2
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	3.0	3.0	kJ/m ²	
23°C	4.0	10	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	30	30	kJ/m ²	
23°C	40	100	kJ/m ²	
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	190	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	70.0	--	°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	9.0E-5	--	cm/cm/°C	
Transverse	9.0E-5	--	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	31	29	kV/mm	IEC 60243-1
Comparative Tracking Index	500	500	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, 14-040N, GB 30	--		ISO 1874
NOTE				
1.	Long Term			
2.	Short Term			

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