

Grilon® EBGM-30 HX

Polyamide 66/6 Copolymer

EMS-GRIVORY

Message:

Grilon® EBGM-30 HX is a Polyamide 66/6 Copolymer (Nylon 66/6) material filled with 30% glass fiber and unspecified nano. It is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America for blow molding, extrusion, or injection molding.

Important attributes of Grilon® EBGM-30 HX are:

Flame Rated

RoHS Compliant

Heat Stabilizer

Typical application of Grilon® EBGM-30 HX: Automotive

General Information				
Filler / Reinforcement	Glass Fiber,30% Filler by Weight Unspecified Nano			
Additive	Heat Stabilizer			
Features	Heat Stabilized			
Uses	Automotive Applications Blow Molding Applications			
RoHS Compliance	RoHS Compliant			
Forms	Granules			
Processing Method	Blow Molding Extrusion Injection Molding			
Physical	Dry	Conditioned	Unit	Test Method
Density	1.37	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	0.80	--	%	
Flow	0.20	--	%	
Water Absorption				ISO 62
Saturation, 23°C	5.5	--	%	
Equilibrium, 23°C, 50% RH	2.0	--	%	
Hardness	Dry	Conditioned	Unit	Test Method
Ball Indentation Hardness	210	105	MPa	ISO 2039-1
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	9500	5500	MPa	ISO 527-2
Tensile Stress (Break)	155	90.0	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	7.0	7.0	kJ/m ²	
23°C	10	11	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	225	--	°C	ISO 75-2/A
8.0 MPa, Unannealed	155	--	°C	ISO 75-2/C
Continuous Use Temperature				Internal Method
-- ¹	130 to 150	--	°C	
-- ²	230	--	°C	
Melting Temperature ³	260	--	°C	ISO 11357-3
CLTE				ISO 11359-2
Flow	2.0E-5	--	cm/cm/°C	
Transverse	8.0E-5	--	cm/cm/°C	
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	--	1.0E+12	ohms	IEC 60093
Volume Resistivity	1.0E+12	1.0E+11	ohms·cm	IEC 60093
Electric Strength	38	34	kV/mm	IEC 60243-1
Comparative Tracking Index	--	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	Unit	Test Method
ISO Type	PA66+PA6, MH, 14-100, GF30	--		ISO 1874
NOTE				
1.	Long Term			
2.	Short Term			
3.	10°C/min			

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