

Grilon® EBGM-20 HX

Polyamide 66/6 Copolymer

EMS-GRIVORY

Message:

Grilon® EBGM-20 HX is a Polyamide 66/6 Copolymer (Nylon 66/6) material filled with 15% glass fiber and unspecified nano. It is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America for blow molding or extrusion.

Important attributes of Grilon® EBGM-20 HX are:

Flame Rated

RoHS Compliant

Heat Stabilizer

Typical application of Grilon® EBGM-20 HX: Automotive

General Information				
Filler / Reinforcement		Glass Fiber,15% 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		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.24	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	0.70	--	%	
Flow	0.40	--	%	
Water Absorption				ISO 62
Saturation, 23°C	8.0	--	%	
Equilibrium, 23°C, 50% RH	3.0	--	%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	6300	3300	MPa	ISO 527-2
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	5.0	5.0	kJ/m ²	
23°C	8.0	10	kJ/m ²	

Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	50	50	kJ/m ²	
23°C	50	65	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	65.0	--	°C	ISO 75-2/C
Melting Temperature ¹	260	--	°C	ISO 11357-3
CLTE				ISO 11359-2
Flow	3.0E-5	--	cm/cm/°C	
Transverse	1.0E-4	--	cm/cm/°C	
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	--	1.0E+10	ohms	IEC 60093
Volume Resistivity	1.0E+12	1.0E+11	ohms·cm	IEC 60093
Electric Strength	40	30	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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