

Grilon® EB 50 H

Polyamide 6

EMS-GRIVORY

Message:

Grilon® EB 50 H is a Polyamide 6 (Nylon 6) material. It is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America for blow molding or extrusion.

Important attributes of Grilon® EB 50 H are:

Flame Rated

RoHS Compliant

Heat Stabilizer

High Viscosity

Typical applications include:

Automotive

Consumer Goods

Electrical/Electronic Applications

Hose/Tubing

Industrial Applications

General Information				
Additive		Heat Stabilizer		
Features		Heat Stabilized		
		High Viscosity		
Uses		Automotive Applications		
		Blow Molding Applications		
		Consumer Applications		
		Electrical/Electronic Applications		
		Hydraulic Applications		
		Industrial Applications		
		Pneumatic Applications		
		Tubing		
RoHS Compliance		RoHS Compliant		
Forms		Granules		
Processing Method		Blow Molding		
		Extrusion		
Multi-Point Data		Isothermal Stress vs. Strain (ISO 11403-1)		
		Secant Modulus vs. Strain (ISO 11403-1)		
		Shear Modulus vs. Temperature (ISO 11403-1)		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.11	--	g/cm ³	ISO 1183

Water Absorption				ISO 62
Saturation, 23°C	9.0	--	%	
Equilibrium, 23°C, 50% RH	3.0	--	%	
Hardness	Dry	Conditioned	Unit	Test Method
Ball Indentation Hardness	135	55.0	MPa	ISO 2039-1
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	2800	800	MPa	ISO 527-2
Tensile Stress				ISO 527-2
Yield	75.0	40.0	MPa	
Break	50.0	50.0	MPa	
Tensile Strain (Yield)	4.0	20	%	ISO 527-2
Nominal Tensile Strain at Break	> 50	> 50	%	ISO 527-2
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	10	9.0	kJ/m ²	
23°C	11 kJ/m ²	No Break		
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	No Break	No Break		
23°C	No Break	No Break		
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	140	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	55.0	--	°C	ISO 75-2/A
Continuous Use Temperature				Internal Method
-- ¹	100 to 120	--	°C	
-- ²	180	--	°C	
Melting Temperature ³	222	--	°C	ISO 11357-3
CLTE				ISO 11359-2
Flow	9.0E-5	--	cm/cm/°C	
Transverse	1.2E-4	--	cm/cm/°C	
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	--	1.0E+10	ohms	IEC 60093
Volume Resistivity	1.0E+13	1.0E+11	ohms·cm	IEC 60093
Electric Strength	28	24	kV/mm	IEC 60243-1
Comparative Tracking Index	--	425	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-HI, BH, 34-030	--	ISO 1874
NOTE			
1.	Long Term		
2.	Short Term		
3.	10°C/min		

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