

Grivory® GM-4H

Polyamide 66 + PA 6I/X

EMS-GRIVORY

Message:

Grivory® GM-4H is a Polyamide 66 + PA 6I/X (Nylon 66+Nylon 6I/X) material filled with 40% mineral. It is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America for extrusion or injection molding.

Important attributes of Grivory® GM-4H are:

Flame Rated

RoHS Compliant

Heat Stabilizer

Typical applications include:

Automotive

Electrical/Electronic Applications

Appliances

Consumer Goods

Engineering/Industrial Parts

General Information	
UL YellowCard	E53898-512774
Filler / Reinforcement	Mineral,40% Filler by Weight
Additive	Heat Stabilizer
Features	Aromatic
	Heat Stabilized
Uses	Appliance Components
	Automotive Applications
	Automotive Exterior Parts
	Automotive Interior Parts
	Connectors
	Consumer Applications
	Electrical/Electronic Applications
	Engineering Parts
	Household Goods
	Hydraulic Applications
	Industrial Applications
	Pneumatic Applications
	Power/Other Tools
	Sporting Goods
RoHS Compliance	RoHS Compliant
Forms	Granules
Processing Method	Extrusion
	Injection Molding

Multi-Point Data	Isothermal Stress vs. Strain (ISO 11403-1)			
	Secant Modulus vs. Strain (ISO 11403-1)			
	Shear Modulus vs. Temperature (ISO 11403-1)			
	Specific Volume vs Temperature (ISO 11403-2)			

Physical	Dry	Conditioned	Unit	Test Method
Density	1.45	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	0.80	--	%	
Flow	0.80	--	%	
Water Absorption				ISO 62
Saturation, 23°C	4.5	--	%	
Equilibrium, 23°C, 50% RH	1.4	--	%	
Hardness	Dry	Conditioned	Unit	Test Method
Ball Indentation Hardness	225	200	MPa	ISO 2039-1
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	7000	6000	MPa	ISO 527-2
Tensile Stress (Break)	100	80.0	MPa	ISO 527-2
Tensile Strain (Break)	3.0	5.0	%	ISO 527-2
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	4.0	4.0	kJ/m ²	
23°C	6.0	6.0	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	75	90	kJ/m ²	
23°C	80	100	kJ/m ²	
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
1.8 MPa, Unannealed	105	--	°C	ISO 75-2/A
8.0 MPa, Unannealed	60.0	--	°C	ISO 75-2/C
Continuous Use Temperature				Internal Method
-- ¹	100 to 120	--	°C	
-- ²	220	--	°C	
Melting Temperature ³	260	--	°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+13	ohms	IEC 60093

Volume Resistivity	1.0E+14	1.0E+14	ohms·cm	IEC 60093
Electric Strength	26	26	kV/mm	IEC 60243-1
Comparative Tracking Index	--	600	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	PA66+PA6I/X, MH, 14-070, MD40			ISO 1874
NOTE				
1.	Long Term			
2.	Short Term			
3.	10°C/min			

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