

Grivory® GVX-5 H nat

Polyamide 66 + PA 6I/X

EMS-GRIVORY

Message:

Grivory® GVX-5 H nat is a Polyamide 66 + PA 6I/X (Nylon 66+Nylon 6I/X) material filled with 50% glass fiber. It is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America for extrusion or injection molding.

Important attributes of Grivory® GVX-5 H nat are:

- Flame Rated
- RoHS Compliant
- Heat Stabilizer
- Typical applications include:
 - Automotive
 - Electrical/Electronic Applications
 - Appliances
 - Consumer Goods
 - Engineering/Industrial Parts

General Information			
UL YellowCard	E53898-100966891	E132701-100169769	E53898-101642793
Filler / Reinforcement	Glass Fiber,50% 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		
Appearance	Natural Color		
Forms	Granules		
Processing Method	Extrusion		
	Injection Molding		

Multi-Point Data		Isothermal Stress vs. Strain (ISO 11403-1)		
		Tensile Modulus vs. Temperature (ISO 11403-1)		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.56	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	0.30	--	%	
Flow	0.10	--	%	
Water Absorption				ISO 62
Saturation, 23°C	4.0	--	%	
Equilibrium, 23°C, 50% RH	1.4	--	%	
Hardness	Dry	Conditioned	Unit	Test Method
Ball Indentation Hardness	290	265	MPa	ISO 2039-1
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	18000	17000	MPa	ISO 527-2
Tensile Stress (Break)	250	220	MPa	ISO 527-2
Tensile Strain (Break)	2.5	2.5	%	ISO 527-2
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	15	15	kJ/m ²	
23°C	15	15	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	65	60	kJ/m ²	
23°C	80	75	kJ/m ²	
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
1.8 MPa, Unannealed	245	--	°C	ISO 75-2/A
8.0 MPa, Unannealed	175	--	°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	2.0E-5	--	cm/cm/°C	
Transverse	5.0E-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+12	ohms · cm	IEC 60093

Electric Strength	33	33	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, 14-190, GF50			ISO 1874
NOTE				
1.	Long Term			
2.	Short Term			
3.	10°C/min			

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