

Grivory® GVX-6 H nat

Polyamide 66 + PA 6I/X

EMS-GRIVORY

Message:

Grivory® GVX-6 H nat is a Polyamide 66 + PA 6I/X (Nylon 66+Nylon 6I/X) material filled with 60% 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-6 H nat are:

Flame Rated

RoHS Compliant

Good Mold Release

Heat Stabilizer

Typical applications include:

Automotive

Electrical/Electronic Applications

Appliances

Consumer Goods

Engineering/Industrial Parts

General Information	
UL YellowCard	E53898-100966891
Filler / Reinforcement	Glass Fiber,60% Filler by Weight
Additive	Heat Stabilizer
Features	Aromatic Good Flow Good Mold Release 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	1.69	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	0.20	--	%	
Flow	0.10	--	%	
Water Absorption				ISO 62
Saturation, 23°C	3.5	--	%	
Equilibrium, 23°C, 50% RH	1.2	--	%	
Hardness	Dry	Conditioned	Unit	Test Method
Ball Indentation Hardness	320	305	MPa	ISO 2039-1
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	22500	22000	MPa	ISO 527-2
Tensile Stress (Break)	290	260	MPa	ISO 527-2
Tensile Strain (Break)	2.0	2.0	%	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	70	70	kJ/m ²	
23°C	75	70	kJ/m ²	
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
1.8 MPa, Unannealed	250	--	°C	ISO 75-2/A
8.0 MPa, Unannealed	205	--	°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	1.5E-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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