Grivory® GVS-5H nat

Polyamide 66 + PA 6I/X

EMS-GRIVORY

Message:

Grivory® GVS-5H 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® GVS-5H nat are:
Flame Rated
RoHS Compliant
Good Aesthetics
Heat Stabilizer
Typical applications include:
Automotive
Appliances
Consumer Goods
Electrical/Electronic Applications
Engineering/Industrial Parts

General Information	
UL YellowCard	E53898-304749
Filler / Reinforcement	Glass Fiber,50% Filler by Weight
Additive	Heat Stabilizer
Features	Aromatic Good Surface Finish Heat Stabilized
Uses	Appliance Components Automotive Applications Automotive Exterior Parts Automotive Interior Parts 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	1.58	--	g/cm³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	0.50	--	%	
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	280	255	MPa	ISO 2039-1
Mechanical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Tensile Modulus	17000	16000	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/m²	
23°C	15	15	kJ/m²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	75	60	kJ/m²	
23°C	90	80	kJ/m²	
Thermal	**Dry**	**Conditioned**	**Unit**	**Test Method**
Heat Deflection Temperature				
1.8 MPa, Unannealed	240	--	°C	ISO 75-2/A
8.0 MPa, Unannealed	185	--	°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	7.0E-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	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			

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China