

Grivory® XE 5106 (GVL-4H V0)

Polyamide 66 + PA 6I/X

EMS-GRIVORY

Message:

Grivory® XE 5106 (GVL-4H V0) is a Polyamide 66 + PA 6I/X (Nylon 66+Nylon 6I/X) material filled with 40% long glass fiber. It is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America for injection molding.

Important attributes of Grivory® XE 5106 (GVL-4H V0) are:

- Flame Rated
- Flame Retardant
- Heat Resistant
- Typical applications include:
 - Automotive
 - Electrical/Electronic Applications
 - Appliances
 - Engineering/Industrial Parts
 - Household Applications

General Information				
UL YellowCard		E53898-101326467		
Filler / Reinforcement		Long Glass Fiber,40% Filler by Weight		
Additive		Flame Retardant		
Features		Aromatic		
		Flame Retardant		
		High Heat Resistance		
Uses		Appliance Components		
		Automotive Applications		
		Automotive Electronics		
		Automotive Exterior Parts		
		Automotive Interior Parts		
		Connectors		
		Electrical/Electronic Applications		
		Engineering Parts		
		Household Goods		
		Hydraulic Applications		
		Lighting Applications		
		Pneumatic Applications		
		Power/Other Tools		
Forms		Granules		
Processing Method		Injection Molding		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.50	--	g/cm³	ISO 1183

Molding Shrinkage				ISO 294-4
Across Flow	0.30	--	%	
Flow	0.10	--	%	
Water Absorption				ISO 62
Saturation, 23°C	4.1	--	%	
Equilibrium, 23°C, 50% RH	1.1	--	%	
Hardness	Dry	Conditioned	Unit	Test Method
Ball Indentation Hardness	265	250	MPa	ISO 2039-1
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	14500	13000	MPa	ISO 527-2
Tensile Stress (Break)	200	175	MPa	ISO 527-2
Tensile Strain (Break)	2.1	2.4	%	ISO 527-2
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	25	25	kJ/m ²	
23°C	25	25	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	70	70	kJ/m ²	
23°C	70	65	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	210	--	°C	ISO 75-2/C
Maximum Use Temperature				Internal Method
Long Term	100 to 120	--	°C	
Short Term	220	--	°C	
ISO Type	PA66+PA6I/X, MFHR, 14-140N,-GF40 FR(40)			ISO 1874
Melting Temperature ¹	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+13	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

V-0			
Flammability Classification (1.60 mm)	5VA	--	IEC 60695-11-10, -20
NOTE			
1.	10°C/min		

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

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



WECHAT