

Grivory® XE 5107 (GVL-5H V0)

Polyamide 66 + PA 6I/X

EMS-GRIVORY

Message:

Grivory® XE 5107 (GVL-5H V0) is a Polyamide 66 + PA 6I/X (Nylon 66+Nylon 6I/X) material filled with 50% 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 5107 (GVL-5H V0) are:

Flame Rated

Flame Retardant

Heat Resistant

Typical applications include:

Automotive

Electrical/Electronic Applications

Appliances

Engineering/Industrial Parts

Household Applications

General Information				
Filler / Reinforcement		Long Glass Fiber,50% 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		
		Sporting Goods		
Forms		Granules		
Processing Method		Injection Molding		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.59	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4

Across Flow	0.30	--	%	
Flow	0.10	--	%	
Water Absorption				ISO 62
Saturation, 23°C	3.6	--	%	
Equilibrium, 23°C, 50% RH	1.0	--	%	
Hardness	Dry	Conditioned	Unit	Test Method
Ball Indentation Hardness	265	250	MPa	ISO 2039-1
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	17500	16500	MPa	ISO 527-2
Tensile Stress (Break)	230	205	MPa	ISO 527-2
Tensile Strain (Break)	2.4	2.5	%	ISO 527-2
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	30	30	kJ/m ²	
23°C	30	30	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	90	90	kJ/m ²	
23°C	95	90	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	220	--	°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, MH, 14-180N, GF50 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

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IEC 60695-11-10, -20

NOTE

1. 10°C/min

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