

Grivory® G4V-5H nat

Polyamide 66 + PA 6I/X

EMS-GRIVORY

Message:

Grivory® G4V-5H nat 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® G4V-5H nat are:

Flame Rated

High Viscosity

Nucleated

Typical applications include:

Automotive

Electrical/Electronic Applications

Lighting Applications

General Information				
Filler / Reinforcement		Long Glass Fiber,50% Filler by Weight		
Additive		Nucleating Agent		
Features		Barrier Resin		
		High Viscosity		
		Nucleated		
Uses		Automotive Applications		
		Automotive Electronics		
		Automotive Exterior Parts		
		Electrical/Electronic Applications		
		Lighting Applications		
		Pneumatic Applications		
Appearance		Clear/Transparent		
		Natural Color		
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	0.40	--	%	ISO 62
Flow	0.10	--	%	
Water Absorption				
Saturation, 23°C	4.0	--	%	ISO 62
Equilibrium, 23°C, 50% RH	1.4	--	%	

Hardness	Dry	Conditioned	Unit	Test Method
Ball Indentation Hardness	290	275	MPa	ISO 2039-1
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	16500	16500	MPa	ISO 527-2
Tensile Stress (Break)	240	200	MPa	ISO 527-2
Tensile Strain (Break)	2.0	2.5	%	ISO 527-2
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	15	14	kJ/m ²	
23°C	15	14	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	60	50	kJ/m ²	
23°C	80	80	kJ/m ²	
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
1.8 MPa, Unannealed	215	--	°C	ISO 75-2/A
8.0 MPa, Unannealed	165	--	°C	ISO 75-2/C
Maximum Use Temperature				Internal Method
Long Term	140	--	°C	
Short Term	220	--	°C	
ISO Type	PA66/6I/X, MH, 11-160, GF50	--		ISO 1874
Melting Temperature ¹	235	--	°C	ISO 11357-3
CLTE				ISO 11359-2
Flow	1.0E-5	--	cm/cm/°C	
Transverse	6.0E-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+13	ohms·cm	IEC 60093
Electric Strength	35	35	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
NOTE				
1.	10°C/min			

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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

