Grivory® GV XE 16101 (GVL-5H HP)

Polyamide 66 + PA 6I/X

EMS-GRIVORY

Message:

Grivory® GV XE 16101 (GVL-5H HP) 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® GV XE 16101 (GVL-5H HP) are:
Flame Rated
Good Mold Release
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
Features	Aromatic Good Flow Good Mold Release 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	1.56	--	g/cm³	ISO 1183
Molding Shrinkage				ISO 294-4

Across Flow	0.30	--	%	
Flow	0.10	--	%	
Water Absorption				ISO 62
Saturation, 23°C	4.0	--	%	
Equilibrium, 23°C, 50% RH	1.3	--	%	
Hardness	**Dry**	**Conditioned**	**Unit**	**Test Method**
Ball Indentation Hardness	275	260	MPa	ISO 2039-1
Mechanical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Tensile Modulus	17500	16800	MPa	ISO 527-2
Tensile Stress (Break)	290	265	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	40	40	kJ/m^2	
23°C	40	40	kJ/m^2	
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	100	100	kJ/m^2	
23°C	120	110	kJ/m^2	
Thermal	**Dry**	**Conditioned**	**Unit**	**Test Method**
Heat Deflection Temperature				
1.8 MPa, Unannealed	255	--	°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, 14-180, GF50			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**
Flammability Classification (0.800 mm)	HB	--		IEC 60695-11-10, -20

NOTE	
1.	10°C/min

Recommended distributors for this material

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