Grilamid® LV-3H

Polyamide 12

EMS-GRIVORY

Message:

Grilamid® LV-3H is a Polyamide 12 (Nylon 12) material filled with 30% glass fiber. It is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America for injection molding.
Important attributes of Grilamid® LV-3H are:
Flame Rated
RoHS Compliant
Good UV Resistance
Heat Stabilizer
Impact Resistant
Typical applications include:
Automotive
Electrical/Electronic Applications
Appliances
Consumer Goods
Engineering/Industrial Parts

General Information			
UL YellowCard	E53898-243842	E132701-237874	E53898-101313116
Filler / Reinforcement	Glass Fiber,30% Filler by Weight		
Additive	Heat Stabilizer		
Features	Good UV Resistance Heat Stabilized High Impact Resistance Hydrolysis Resistant		
Uses	Appliance Components Automotive Applications Connectors Consumer Applications Electrical/Electronic Applications Engineering Parts Household Goods Hydraulic Applications Industrial Applications Medical Devices Pneumatic Applications Power/Other Tools Sporting Goods		
Agency Ratings	DVGW W270		
RoHS Compliance	RoHS Compliant		

Forms	Granules
Processing Method	Injection Molding
Multi-Point Data	Isochronous Stress vs. Strain (ISO 11403-1) Isothermal Stress vs. Strain (ISO 11403-1) Secant Modulus vs. Strain (ISO 11403-1) Shear Modulus vs. Temperature (ISO 11403-1) Viscosity vs. Shear Rate (ISO 11403-2)

Physical	Dry	Conditioned	Unit	Test Method
Density	1.22	--	g/cm³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	0.80	--	%	
Flow	0.10	--	%	
Water Absorption				ISO 62
Saturation, 23°C	1.1	--	%	
Equilibrium, 23°C, 50% RH	0.60	--	%	
Mechanical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Tensile Modulus	6500	6000	MPa	ISO 527-2
Impact	**Dry**	**Conditioned**	**Unit**	**Test Method**
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	15	15	kJ/m²	
23°C	19	20	kJ/m²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	90	80	kJ/m²	
23°C	90	80	kJ/m²	
Thermal	**Dry**	**Conditioned**	**Unit**	**Test Method**
Heat Deflection Temperature				
1.8 MPa, Unannealed	160	--	°C	ISO 75-2/A
8.0 MPa, Unannealed	90.0	--	°C	ISO 75-2/C
Melting Temperature [1]	178	--	°C	ISO 11357-3
CLTE				ISO 11359-2
Flow	2.0E-5	--	cm/cm/°C	
Transverse	1.5E-4	--	cm/cm/°C	
Electrical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Surface Resistivity	--	1.0E+12	ohms	IEC 60093
Volume Resistivity	--	1.0E+13	ohms·cm	IEC 60093
Electric Strength	--	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

Recommended distributors for this material

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