

Grilamid® LV-3A H

Polyamide 12

EMS-GRIVORY

Message:

Grilamid® LV-3A H 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-3A H are:

RoHS Compliant

Heat Stabilizer

Typical applications include:

Automotive

Consumer Goods

Industrial Applications

General Information				
Filler / Reinforcement		Glass Fiber,30% Filler by Weight		
Additive		Heat Stabilizer		
Features		Heat Stabilized		
		Hydrolysis Resistant		
Uses		Automotive Applications		
		Consumer Applications		
		Industrial Applications		
RoHS Compliance		RoHS Compliant		
Forms		Granules		
Processing Method		Injection Molding		
Multi-Point Data		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/cm ³	ISO 1183
Water Absorption				ISO 62
Saturation, 23°C	1.4	--	%	
Equilibrium, 23°C, 50% RH	0.60	--	%	
Hardness	Dry	Conditioned	Unit	Test Method
Shore Hardness (Shore D, 15 sec)	--	80		ISO 868
Ball Indentation Hardness	--	120	MPa	ISO 2039-1
Mechanical	Dry	Conditioned	Unit	Test Method

Tensile Modulus	6500	5700	MPa	ISO 527-2
Tensile Stress (Break)	120	110	MPa	ISO 527-2
Tensile Strain (Break)	6.0	6.0	%	ISO 527-2
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	--	15	kJ/m ²	
23°C	--	25	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	--	80	kJ/m ²	
23°C	--	80	kJ/m ²	
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
1.8 MPa, Unannealed	165	--	°C	ISO 75-2/A
8.0 MPa, Unannealed	90.0	--	°C	ISO 75-2/C
Melting Temperature ¹	180	--	°C	ISO 11357-3
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	--	32	kV/mm	IEC 60243-1
Comparative Tracking Index	--	575	V	IEC 60112
NOTE				
1.	10°C/min			

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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

