

Grilamid® LV-50H FWA nat

Polyamide 12

EMS-GRIVORY

Message:

Grilamid® LV-50H FWA nat is a Polyamide 12 (Nylon 12) material filled with 50% 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-50H FWA nat are:

Flame Rated

RoHS Compliant

Food Contact Acceptable

Heat Stabilizer

Typical applications include:

Plumbing/Piping/Potable Water

Food Contact Applications

Consumer Goods

Household Applications

Industrial Applications

General Information				
Filler / Reinforcement		Glass Fiber,50% Filler by Weight		
Additive		Heat Stabilizer		
Features		Food Contact Acceptable		
		Heat Stabilized		
		Hydrolysis Resistant		
Uses		Consumer Applications		
		Household Goods		
		Industrial Applications		
Agency Ratings		ACS Unspecified Rating		
		DVGW W270		
		EU Food Contact, Unspecified Rating		
		FDA Food Contact, Unspecified Rating		
		KTW Unspecified Rating		
		NSF 51		
		NSF 61		
		WRAS Unspecified Rating		
RoHS Compliance		RoHS Compliant		
Appearance		Natural Color		
Forms		Granules		
Processing Method		Injection Molding		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.47	--	g/cm ³	ISO 1183

Molding Shrinkage				ISO 294-4
Across Flow	0.50	--	%	
Flow	0.10	--	%	
Water Absorption				ISO 62
Saturation, 23°C	0.80	--	%	
Equilibrium, 23°C, 50% RH	0.40	--	%	
Hardness	Dry	Conditioned	Unit	Test Method
Shore Hardness (Shore D, 15 sec)	--	82		ISO 868
Ball Indentation Hardness	--	155	MPa	ISO 2039-1
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	12000	11500	MPa	ISO 527-2
Tensile Stress (Break)	155	135	MPa	ISO 527-2
Tensile Strain (Break)	5.0	6.0	%	ISO 527-2
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	15	15	kJ/m ²	
23°C	19	20	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	90	80	kJ/m ²	
23°C	90	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	125	--	°C	ISO 75-2/C
Continuous Use Temperature				Internal Method
-- ¹	90.0 to 120	--	°C	
-- ²	150	--	°C	
Melting Temperature ³	178	--	°C	ISO 11357-3
CLTE				ISO 11359-2
Flow	1.5E-5	--	cm/cm/°C	
Transverse	1.2E-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
Additional Information	Dry	Conditioned	Test Method
ISO Type	PA12, MH, 18-120, GF50	--	ISO 1874

NOTE			
1.	Long Term		
2.	Short Term		
3.	10°C/min		

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