Grilamid® LV-30H V0

Polyamide 12

EMS-GRIVORY

Message:

Grilamid®LV-30H V0 is a polyamide 12 (nylon 12) material, and the filler is 30% glass fiber reinforced material. This product is available in North America, Africa and the Middle East, Latin America, Europe or Asia Pacific. The processing method is injection molding.
Grilamid®The main features of LV-30H V0 are:
flame retardant/rated flame
ROHS certification
Flame Retardant
Good UV resistance
Typical application areas include:
Electrical/electronic applications
Automotive Industry
electrical appliances
industrial applications
Consumer goods

General Information	
UL YellowCard	E53898-102341397
Filler / Reinforcement	Glass fiber reinforced material, 30% filler by weight
Additive	Flame retardancy
Features	Good UV resistance Hydrolysis resistance Flame retardancy
Uses	Lighting Applications Electrical/Electronic Applications Electrical appliances Industrial application Connector Automotive Electronics Application in Automobile Field Consumer goods application field
RoHS Compliance	RoHS compliance
Forms	Particles
Processing Method	Injection molding

Physical	Dry	Conditioned	Unit	Test Method
Density	1.22	--	g/cm³	ISO 1183
Molding Shrinkage				ISO 294-4
Transverse flow	0.70	--	%	ISO 294-4
Flow	0.10	--	%	ISO 294-4
Water Absorption				ISO 62

Saturated, 23°C	1.4	--	%	ISO 62
Equilibrium, 23°C, 50% RH	0.60	--	%	ISO 62
Hardness	**Dry**	**Conditioned**	**Unit**	**Test Method**
Ball Indentation Hardness	170	145	MPa	ISO 2039-1
Mechanical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Tensile Modulus	10000	9000	MPa	ISO 527-2
Tensile Stress (Break)	95.0	75.0	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	8.0	8.0	kJ/m²	ISO 179/1eA
23°C	9.0	9.0	kJ/m²	ISO 179/1eA
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	35	35	kJ/m²	ISO 179/1eU
23°C	35	35	kJ/m²	ISO 179/1eU
Thermal	**Dry**	**Conditioned**	**Unit**	**Test Method**
Heat Deflection Temperature				
1.8 MPa, not annealed	160	--	°C	ISO 75-2/A
8.0 MPa, not annealed	105	--	°C	ISO 75-2/C
Continuous Use Temperature [1]	90.0 - 120	--	°C	ISO 2578
Melting Temperature [2]	178	--	°C	ISO 11357-3
Linear thermal expansion coefficient				ISO 11359-2
Flow	2.0E-5	--	cm/cm/°C	ISO 11359-2
Lateral	9.0E-5	--	cm/cm/°C	ISO 11359-2
Electrical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Surface Resistivity	--	1.0E+11	ohms	IEC 60093
Volume Resistivity	1.0E+11	1.0E+11	ohms·cm	IEC 60093
Dielectric Strength	44	43	kV/mm	IEC 60243-1
Comparative Tracking Index	--	600	V	IEC 60112
Flammability	**Dry**	**Conditioned**	**Unit**	**Test Method**
Flammability Classification (0.40 mm)	V-0	--		IEC 60695-11-10, -20
Additional Information	**Dry**	**Conditioned**		**Test Method**
ISO Type	PA12,GF30 FR,M1HLF2R,C18-100N			ISO 16396
NOTE				
1.	Long Term			
2.	10°C/min			

Recommended distributors for this material

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