Grilamid® LBV-50H FWA nat

Polyamide 12

EMS-GRIVORY

Message:

Grilamid® LBV-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® LBV-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
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 Industrial Applications
Agency Ratings	ACS Unspecified Rating DVGW W270 EU Food Contact, Unspecified Rating FDA Food Contact, Unspecified Rating KTW Unspecified Rating 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/cm³	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)	--	86		ISO 868
Ball Indentation Hardness	--	190	MPa	ISO 2039-1
Mechanical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Tensile Modulus	13500	12500	MPa	ISO 527-2
Tensile Stress (Break)	170	160	MPa	ISO 527-2
Tensile Strain (Break)	5.0	5.0	%	ISO 527-2
Impact	**Dry**	**Conditioned**	**Unit**	**Test Method**
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	14	14	kJ/m^2	
23°C	18	18	kJ/m^2	
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	95	90	kJ/m^2	
23°C	95	90	kJ/m^2	
Thermal	**Dry**	**Conditioned**	**Unit**	**Test Method**
Heat Deflection Temperature				
1.8 MPa, Unannealed	160	--	°C	ISO 75-2/A
8.0 MPa, Unannealed	110	--	°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	9.0E-5	--	cm/cm/°C	
Electrical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Surface Resistivity	--	1.0E+11	ohms	IEC 60093
Volume Resistivity	--	1.0E+12	ohms·cm	IEC 60093
Electric Strength	--	40	kV/mm	IEC 60243-1
Comparative Tracking Index	--	60.0	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

Recommended distributors for this material

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