Grilamid® LVX-65H SST nat

Polyamide 12

EMS-GRIVORY

Message:

Grilamid® LVX-65H SST nat is a Polyamide 12 (Nylon 12) material filled with 65% glass fiber. It is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America for injection molding.
Important attributes of Grilamid® LVX-65H SST nat are:
Flame Rated
RoHS Compliant
Good Mold Release
Heat Stabilizer
Typical applications include:
Electrical/Electronic Applications
Appliances
Automotive
Consumer Goods
Engineering/Industrial Parts

General Information	
UL YellowCard	E53898-101407887
Filler / Reinforcement	Glass Fiber,65% Filler by Weight
Additive	Heat Stabilizer
Features	Good Flow Good Mold Release Heat Stabilized
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
RoHS Compliance	RoHS Compliant
Appearance	Natural Color
Forms	Granules
Processing Method	Injection Molding

Physical	Dry	Conditioned	Unit	Test Method
Density	1.70	--	g/cm³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	0.30	--	%	
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**
Ball Indentation Hardness	--	200	MPa	ISO 2039-1
Mechanical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Tensile Modulus	19000	17000	MPa	ISO 527-2
Tensile Stress (Break)	210	185	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	20	20	kJ/m²	
23°C	25	25	kJ/m²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	85	85	kJ/m²	
23°C	90	90	kJ/m²	
Thermal	**Dry**	**Conditioned**	**Unit**	**Test Method**
Heat Deflection Temperature				
1.8 MPa, Unannealed	175	--	°C	ISO 75-2/A
8.0 MPa, Unannealed	160	--	°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	1.0E-5	--	cm/cm/°C	
Transverse	7.0E-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	43	43	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, MHR, 18-190, GF65	--	ISO 1874
NOTE			
1.	Long Term		
2.	Short Term		
3.	10°C/min		

Recommended distributors for this material

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