

Grilamid® LVX-50H black 9230

Polyamide 12

EMS-GRIVORY

Message:

Grilamid® LVX-50H black 9230 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® LVX-50H black 9230 are:

Flame Rated

RoHS Compliant

Good Mold Release

Heat Stabilizer

Typical applications include:

Automotive

Electrical/Electronic Applications

Appliances

Consumer Goods

Engineering/Industrial Parts

General Information	
Filler / Reinforcement	Glass Fiber,50% Filler by Weight
Additive	Heat Stabilizer
Features	Good Flow
	Good Mold Release
	Heat Stabilized
Uses	Appliance Components
	Automotive Applications
	Automotive Exterior Parts
	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	Black
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	0.40	--	%	
Flow	0.10	--	%	
Water Absorption				ISO 62
Saturation, 23°C	0.80	--	%	
Equilibrium, 23°C, 50% RH	0.40	--	%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	--	12000	MPa	ISO 527-2
Tensile Stress (Break)	--	145	MPa	ISO 527-2
Tensile Strain (Break)	--	3.5	%	ISO 527-2
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	--	20	kJ/m ²	
23°C	--	25	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	--	85	kJ/m ²	
23°C	--	85	kJ/m ²	
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
1.8 MPa, Unannealed	175	--	°C	ISO 75-2/A
8.0 MPa, Unannealed	130	--	°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+12	ohms	IEC 60093
Volume Resistivity	--	1.0E+13	ohms·cm	IEC 60093
Electric Strength	--	55	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, GF50	--	ISO 1874
NOTE			
1.	Long Term		
2.	Short Term		
3.	10°C/min		

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