

Grilamid® LM-05 HX nat

Polyamide 12

EMS-GRIVORY

Message:

Grilamid® LM-05 HX nat is a Polyamide 12 (Nylon 12) material filled with unspecified nano. It is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America for extrusion.

Important attributes of Grilamid® LM-05 HX nat are:

Flame Rated

RoHS Compliant

Heat Stabilizer

Impact Resistant

Typical applications include:

Electrical/Electronic Applications

Hose/Tubing

Wire & Cable

General Information				
Filler / Reinforcement		Unspecified Nano		
Additive		Heat Stabilizer		
Features		Good Impact Resistance		
		Heat Stabilized		
Uses		Electrical/Electronic Applications		
		Tubing		
		Wire & Cable Applications		
RoHS Compliance		RoHS Compliant		
Appearance		Natural Color		
Forms		Granules		
Processing Method		Extrusion		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.03	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	1.0	--	%	
Flow	0.90	--	%	
Water Absorption				ISO 62
Saturation, 23°C	1.4	--	%	
Equilibrium, 23°C, 50% RH	0.70	--	%	
Hardness	Dry	Conditioned	Unit	Test Method
Shore Hardness (Shore D, 15 sec)	--	75		ISO 868
Ball Indentation Hardness	--	80.0	MPa	ISO 2039-1
Mechanical	Dry	Conditioned	Unit	Test Method

Tensile Modulus	--	1700	MPa	ISO 527-2
Tensile Stress				ISO 527-2
Yield	--	45.0	MPa	
Break	--	50.0	MPa	
Tensile Strain (Yield)	--	7.0	%	ISO 527-2
Nominal Tensile Strain at Break	--	> 50	%	ISO 527-2
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	--	6.0	kJ/m ²	
23°C	--	8.0	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	--	No Break		
23°C	--	No Break		
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	125	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	75.0	--	°C	ISO 75-2/A
Continuous Use Temperature				Internal Method
-- ¹	90.0 to 110	--	°C	
-- ²	150	--	°C	
Melting Temperature ³	178	--	°C	ISO 11357-3
CLTE				ISO 11359-2
Flow	8.0E-5	--	cm/cm/°C	
Transverse	1.3E-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	--	50	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, EHL, 24-020	--		ISO 1874
NOTE				
1.	Long Term			
2.	Short Term			
3.	10°C/min			

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