

Grilamid® L XE 10987 nat

Polyamide 12

EMS-GRIVORY

Message:

Grilamid® L XE 10987 nat is a polyamide 12 (nylon 12) material containing 30% glass beads. 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 L XE 10987 nat are:

flame retardant/rated flame

accessible food

Typical application areas include:

Water pipes/pipes/drinking water

food contact applications

industrial applications

home apps

Consumer goods

General Information				
Filler / Reinforcement		Glass beads, 30% filler by weight		
Features		Hydrolysis resistance		
		Compliance of Food Exposure		
Uses		Industrial application		
		Household goods		
		Consumer goods application field		
Agency Ratings		ACS not rated		
		DVGW W270		
		FDA Food Exposure, Not Rated		
		KTW not rated		
		NSF 61		
		WRAS not rated		
		European food contact, not rated		
Appearance		Natural color		
Forms		Particles		
Processing Method		Injection molding		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.22	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Transverse flow	0.90	--	%	ISO 294-4
Flow	0.80	--	%	ISO 294-4
Water Absorption				ISO 62
Saturated, 23°C	1.7	--	%	ISO 62

Equilibrium, 23°C, 50% RH	0.80	--	%	ISO 62
Hardness	Dry	Conditioned	Unit	Test Method
Durometer Hardness (Shore D, 15 sec)	80	80		ASTM D2240
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	2700	2600	MPa	ISO 527-2
Tensile Stress (Break)	50.0	50.0	MPa	ISO 527-2
Tensile Strain (Break)	15	15	%	ISO 527-2
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	3.0	3.0	kJ/m ²	ISO 179/1eA
23°C	4.0	4.0	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	30	150	kJ/m ²	ISO 179/1eU
23°C	80	100	kJ/m ²	ISO 179/1eU
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
1.8 MPa, not annealed	80.0	--	°C	ISO 75-2/A
8.0 MPa, not annealed	145	--	°C	ISO 75-2/C
Continuous Use Temperature				
-- ¹	90.0 - 120	--	°C	ISO 2578
-- ²	140	--	°C	Internal method
Melting Temperature ³	178	--	°C	ISO 11357-3
Linear thermal expansion coefficient				ISO 11359-2
Flow	8.0E-5	--	cm/cm/°C	ISO 11359-2
Lateral	8.0E-5	--	cm/cm/°C	ISO 11359-2
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	--	1.0E+10	ohms	IEC 60093
Volume Resistivity	1.0E+11	1.0E+11	ohms·cm	IEC 60093
Dielectric Strength	40	40	kV/mm	IEC 60243-1
Comparative Tracking Index	--	600	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Flammability Classification (0.8 mm)	HB	--		IEC 60695-11-10, -20
Additional Information	Dry	Conditioned		Test Method
ISO Type	PA12+X,GB30,M1H,C18-030	--		ISO 16396
NOTE				
1.	Long Term			

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|----|------------|
| 2. | Short Term |
| 3. | 10°C/min |

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