

Grilamid® XE 4107 nat

Polyamide 6/12 Copolymer

EMS-GRIVORY

Message:

Grilamid® XE 4107 nat is a Polyamide 6/12 Copolymer (Nylon 6/12) material. It is available in Asia Pacific, Europe, or North America for injection molding. Important attributes of Grilamid® XE 4107 nat are:

- Flame Rated
- Chemical Resistant
- Good UV Resistance
- Typical applications include:
 - Automotive
 - Electrical/Electronic Applications
 - Appliances
 - Consumer Goods
 - Engineering/Industrial Parts

General Information				
Features		Alcohol Resistant		
		Good UV Resistance		
		Hydrolysis Resistant		
Uses		Appliance Components		
		Automotive Applications		
		Automotive Exterior Parts		
		Automotive Interior Parts		
		Connectors		
		Consumer Applications		
		Electrical/Electronic Applications		
		Engineering Parts		
		Household Goods		
		Hydraulic Applications		
		Industrial Applications		
		Pneumatic Applications		
		Power/Other Tools		
		Sporting Goods		
Appearance		Natural Color		
Forms		Granules		
Processing Method		Injection Molding		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.40	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	1.0	--	%	

Flow	0.30	--	%	
Water Absorption				ISO 62
Saturation, 23°C	1.8	--	%	
Equilibrium, 23°C, 50% RH	0.80	--	%	
Hardness	Dry	Conditioned	Unit	Test Method
Ball Indentation Hardness	200	155	MPa	ISO 2039-1
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	12500	9500	MPa	ISO 527-2
Tensile Stress (Break)	175	135	MPa	ISO 527-2
Tensile Strain (Break)	4.0	5.5	%	ISO 527-2
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	11	11	kJ/m ²	
23°C	16	17	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	90	85	kJ/m ²	
23°C	85	85	kJ/m ²	
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
1.8 MPa, Unannealed	185	--	°C	ISO 75-2/A
8.0 MPa, Unannealed	115	--	°C	ISO 75-2/C
Continuous Use Temperature				Internal Method
-- ¹	90.0 to 120	--	°C	
-- ²	180	--	°C	
Melting Temperature ³	215	--	°C	ISO 11357-3
CLTE				ISO 11359-2
Flow	2.0E-5	--	cm/cm/°C	
Transverse	1.0E-4	--	cm/cm/°C	
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	--	1.0E+11	ohms	IEC 60093
Volume Resistivity	1.0E+12	1.0E+12	ohms·cm	IEC 60093
Electric Strength	36	36	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	PA612, MHR, 18-120, GF40	--		ISO 1874

NOTE

- | | |
|----|------------|
| 1. | Long Term |
| 2. | Short Term |
| 3. | 10°C/min |

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

