

Grilamid® XE 4071 nat

Polyamide 612

EMS-GRIVORY

Message:

Grilamid® XE 4071 nat is a Polyamide 612 (Nylon 612) material. It is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America for extrusion or profile extrusion.

Important attributes of Grilamid® XE 4071 nat are:

- Flame Rated
- Heat Resistant
- High Viscosity
- Impact Resistant
- Typical applications include:
 - Automotive
 - Electrical/Electronic Applications
 - Hose/Tubing
 - Lighting Applications
 - Wire & Cable

General Information				
Features		High Heat Resistance		
		High Impact Resistance		
		High Viscosity		
		Hydrolysis Resistant		
Uses		Automotive Applications		
		Automotive Electronics		
		Electrical/Electronic Applications		
		Hydraulic Applications		
		Lighting Applications		
		Pneumatic Applications		
		Profiles		
		Tubing		
		Wire & Cable Applications		
Appearance		Natural Color		
Forms		Granules		
Processing Method		Extrusion		
		Profile Extrusion		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.05	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	0.40	--	%	
Flow	3.0	--	%	

Water Absorption				ISO 62
Saturation, 23°C	2.7	--	%	
Equilibrium, 23°C, 50% RH	1.2	--	%	
Hardness	Dry	Conditioned	Unit	Test Method
Ball Indentation Hardness	100	70.0	MPa	ISO 2039-1
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	2000	1200	MPa	ISO 527-2
Tensile Stress (Yield)	50.0	40.0	MPa	ISO 527-2
Tensile Strain				ISO 527-2
Yield	5.0	20	%	
Break	> 50	> 50	%	
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	12	13	kJ/m ²	
23°C	40	90	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	No Break	No Break		
23°C	No Break	No Break		
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	115	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	55.0	--	°C	ISO 75-2/A
Maximum Use Temperature				Internal Method
Long Term	120 to 140	--	°C	
Short Term	160	--	°C	
ISO Type	PA612-I, EH, 18-020	--		ISO 1874
Melting Temperature ¹	210	--	°C	ISO 11357-3
CLTE				ISO 11359-2
Flow	1.6E-4	--	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	40	40	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

NOTE

1. 10°C/min

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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

