

Grilamid® XE 3959 nat

Polyamide 610

EMS-GRIVORY

Message:

Grilamid® XE 3959 nat is a Polyamide 610 (Nylon 610) 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 3959 nat are:

Flame Rated

Good UV Resistance

Heat Resistant

Impact Resistant

Typical applications include:

Automotive

Hose/Tubing

General Information	
Features	Good UV Resistance High Heat Resistance High Impact Resistance Light Stabilized
Uses	Automotive Applications Hydraulic Applications Tubing
Appearance	Natural Color
Forms	Granules
Processing Method	Extrusion Profile Extrusion

Physical	Dry	Conditioned	Unit	Test Method
Density	1.07	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	0.90	--	%	
Flow	0.90	--	%	
Water Absorption				ISO 62
Saturation, 23°C	3.3	--	%	
Equilibrium, 23°C, 50% RH	1.6	--	%	
Hardness	Dry	Conditioned	Unit	Test Method
Ball Indentation Hardness	120	70.0	MPa	ISO 2039-1
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	2200	1200	MPa	ISO 527-2

Tensile Stress				ISO 527-2
Yield	60.0	45.0	MPa	
Break	40.0	60.0	MPa	
Tensile Strain				ISO 527-2
Yield	5.0	18	%	
Break	> 50	> 50	%	
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	9.0	8.0	kJ/m ²	
23°C	8.0	18	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	150	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	55.0	--	°C	ISO 75-2/A
Continuous Use Temperature				Internal Method
-- ¹	110 to 130	--	°C	
-- ²	160	--	°C	
Melting Temperature ³	220	--	°C	ISO 11357-3
CLTE				ISO 11359-2
Flow	1.1E-4	--	cm/cm/°C	
Transverse	1.1E-4	--	cm/cm/°C	
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	--	1.0E+11	ohms	IEC 60093
Volume Resistivity	1.0E+11	1.0E+11	ohms·cm	IEC 60093
Electric Strength	34	34	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	PA610, EH, 22-010	--		ISO 1874
NOTE				
1.	Long Term			
2.	Short Term			
3.	10°C/min			

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