

Grilamid® XE 4073 nat

Polyamide 610

EMS-GRIVORY

Message:

Grilamid® XE 4073 nat is a Polyamide 610 (Nylon 610) material. It is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America for calendering, casting, extrusion, injection molding, profile extrusion, or sheet extrusion. Primary attribute of Grilamid® XE 4073 nat: Flame Rated.
Typical application of Grilamid® XE 4073 nat: Automotive

General Information	
Features	Light Stabilized
Uses	Automotive Applications
	Automotive Electronics
	Automotive Exterior Parts
	Automotive Interior Parts
	Hydraulic Applications
Appearance	Natural Color
Forms	Granules
Processing Method	Calendering
	Casting
	Extrusion
	Injection Molding
	Profile Extrusion
	Sheet Extrusion

Physical	Dry	Conditioned	Unit	Test Method
Density	1.08	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	1.4	--	%	
Flow	1.3	--	%	
Water Absorption				ISO 62
Saturation, 23°C	3.5	--	%	
Equilibrium, 23°C, 50% RH	1.5	--	%	
Hardness	Dry	Conditioned	Unit	Test Method
Ball Indentation Hardness	128	82.0	MPa	ISO 2039-1
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	2200	1300	MPa	ISO 527-2
Tensile Stress (Break)	65.0	45.0	MPa	ISO 527-2
Tensile Strain (Break)	> 50	> 50	%	ISO 527-2

Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	5.0	5.0	kJ/m ²	
23°C	7.0	13	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	140	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	55.0	--	°C	ISO 75-2/A
Continuous Use Temperature				Internal Method
-- ¹	100 to 130	--	°C	
-- ²	160	--	°C	
Melting Temperature ³	222	--	°C	ISO 11357-3
CLTE				ISO 11359-2
Flow	1.1E-4	--	cm/cm/°C	
Transverse	9.0E-5	--	cm/cm/°C	
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
Electric Strength	35	30	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	PA 610, MHLR, 22-020N	--		ISO 1874
NOTE				
1.	Long Term			
2.	Short Term			
3.	10°C/min			

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