

Grilamid® 1S XE 4224 nat

Polyamide 1010

EMS-GRIVORY

Message:

Grilamid® 1S XE 4224 nat is a Polyamide 1010 (Nylon 1010) material. It is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America for cast film or extrusion.

Important attributes of Grilamid® 1S XE 4224 nat are:

- Flame Rated
- Eco-Friendly/Green
- Good UV Resistance
- Heat Resistant
- High Viscosity

Typical applications include:

- Electrical/Electronic Applications
- Automotive
- Engineering/Industrial Parts
- Film
- Hose/Tubing

General Information	
Additive	Nucleating Agent
Features	Good UV Resistance
	High Heat Resistance
	High Viscosity
	Nucleated
	Renewable Resource Content
Uses	Automotive Applications
	Cast Film
	Connectors
	Electrical/Electronic Applications
	Engineering Parts
	Household Goods
	Outdoor Applications
	Power/Other Tools
	Sporting Goods
	Tubing
	Wire & Cable Applications
Appearance	Natural Color
Forms	Granules
Processing Method	Cast Film
	Extrusion

Physical	Dry	Conditioned	Unit	Test Method
Density	1.04	--	g/cm ³	ISO 1183
Water Absorption				ISO 62
Saturation, 23°C	2.1	--	%	
Equilibrium, 23°C, 50% RH	1.0	--	%	
Hardness	Dry	Conditioned	Unit	Test Method
Ball Indentation Hardness	110	80.0	MPa	ISO 2039-1
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	2000	1300	MPa	ISO 527-2
Tensile Stress (Yield)	55.0	50.0	MPa	ISO 527-2
Tensile Strain (Yield)	5.0	20	%	ISO 527-2
Nominal Tensile Strain at Break	30	45	%	ISO 527-2
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	7.0	6.0	kJ/m ²	
23°C	6.0	9.0	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	125	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	50.0	--	°C	ISO 75-2/A
Melting Temperature ¹	200	--	°C	ISO 11357-3
CLTE				ISO 11359-2
Flow	1.1E-4	--	cm/cm/°C	
Transverse	8.0E-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	38	38	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 1010, G, 18-020	--		ISO 1874
NOTE				

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