

Grilamid® 2S XE 10901 nat

Polyamide 612

EMS-GRIVORY

Message:

Grilamid® 2S XE 10901 nat is a polyamide 612 (nylon 6/12) material. This product is available in North America, Africa and the Middle East, Latin America, Europe or Asia Pacific. The processing method is extrusion or injection molding.

Grilamid® The main features of 2S XE 10901 nat are:

flame retardant/rated flame

Impact modification

environmental protection/green

Good UV resistance

Good flexibility

Typical application areas include:

Wire and cable

Hose

General Information	
Additive	Impact modifier
Features	Impact modification
	Light stabilization
	Impact resistance, high
	Good UV resistance
	Updatable resources
Uses	Good flexibility
	Wire and cable applications
	Pipe fittings
	Pneumatic application
	Hydraulic application
Appearance	Natural color
Forms	Particles
Processing Method	Extrusion
	Injection molding

Physical	Dry	Conditioned	Unit	Test Method
Density	1.01	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Transverse flow	1.6	--	%	ISO 294-4
Flow	1.0	--	%	ISO 294-4
Water Absorption				ISO 62
Saturated, 23°C	1.3	--	%	ISO 62
Equilibrium, 23°C, 50% RH	0.60	--	%	ISO 62

Hardness	Dry	Conditioned	Unit	Test Method
Ball Indentation Hardness	40.0	25.0	MPa	ISO 2039-1
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	700	350	MPa	ISO 527-2
Tensile Stress (Break)	25.0	20.0	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	100	110	kJ/m ²	ISO 179/1eA
23°C	110 kJ/m ²	No Break		ISO 179/1eA
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	No Break	No Break		ISO 179/1eU
23°C	No Break	No Break		ISO 179/1eU
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, not annealed	50.0	--	°C	ISO 75-2/B
1.8 MPa, not annealed	40.0	--	°C	ISO 75-2/A
Continuous Use Temperature				
-- ¹	90.0 - 100	--	°C	ISO 2578
-- ²	150	--	°C	Internal method
Melting Temperature ³	220	--	°C	ISO 11357-3
Linear thermal expansion coefficient				ISO 11359-2
Flow	1.7E-4	--	cm/cm/°C	ISO 11359-2
Lateral	1.7E-4	--	cm/cm/°C	ISO 11359-2
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
Dielectric Strength	38	38	kV/mm	IEC 60243-1
Comparative Tracking Index	--	600	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Flammability Classification (0.8 mm)	HB	--		IEC 60695-11-10, -20
Additional Information	Dry	Conditioned		Test Method
ISO Type	PA610+X - GHL, 18-007	--		ISO 1874
NOTE				
1.	Long Term			
2.	Short Term			
3.	10°C/min			

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