

Grilamid® XE 4116 nat

Polyamide 1010

EMS-GRIVORY

Message:

Grilamid® XE 4116 nat is a Polyamide 1010 (Nylon 1010) material. It is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America for injection molding.

Important attributes of Grilamid® XE 4116 nat are:

- Flame Rated
- RoHS Compliant
- Eco-Friendly/Green
- Good Mold Release

Typical applications include:

- Automotive
- Electrical/Electronic Applications
- Appliances
- Consumer Goods
- Engineering/Industrial Parts

General Information				
Features	Good Flow			
	Good Mold Release			
	Renewable Resource Content			
Uses	Appliance Components			
	Automotive Applications			
	Automotive Exterior Parts			
	Automotive Interior Parts			
	Connectors			
	Consumer Applications			
	Electrical/Electronic Applications			
	Engineering Parts			
	Household Goods			
	Hydraulic Applications			
	Industrial Applications			
	Medical Devices			
	Pneumatic Applications			
	Power/Other Tools			
	Sporting Goods			
RoHS Compliance	RoHS Compliant			
Appearance	Natural Color			
Forms	Granules			
Processing Method	Injection Molding			
Physical	Dry	Conditioned	Unit	Test Method

Density	1.59	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	0.30	--	%	
Flow	0.10	--	%	
Water Absorption				ISO 62
Saturation, 23°C	1.7	--	%	
Equilibrium, 23°C, 50% RH	0.90	--	%	
Hardness	Dry	Conditioned	Unit	Test Method
Ball Indentation Hardness	230	215	MPa	ISO 2039-1
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	17500	16500	MPa	ISO 527-2
Tensile Stress (Break)	210	180	MPa	ISO 527-2
Tensile Strain (Break)	2.5	2.5	%	ISO 527-2
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	15	14	kJ/m ²	
23°C	20	15	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	85	80	kJ/m ²	
23°C	90	75	kJ/m ²	
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
1.8 MPa, Unannealed	185	--	°C	ISO 75-2/A
8.0 MPa, Unannealed	150	--	°C	ISO 75-2/C
Continuous Use Temperature				Internal Method
-- ¹	100	--	°C	
-- ²	150	--	°C	
Melting Temperature ³	200	--	°C	ISO 11357-3
CLTE				ISO 11359-2
Flow	1.0E-5	--	cm/cm/°C	
Transverse	8.0E-5	--	cm/cm/°C	
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	--	1.0E+12	ohms	IEC 60093
Volume Resistivity	1.0E+12	1.0E+12	ohms·cm	IEC 60093
Electric Strength	36	36	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	PA1010+X, MH, 16-160, GF 55 --		ISO 1874
NOTE			
1.	Long Term		
2.	Short Term		
3.	10°C/min		

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