

Grivory® HT XE 4027 nat

Polyamide 10T/X Copolymer

EMS-GRIVORY

Message:

Grivory® HT XE 4027 nat is a Polyamide 10T/X Copolymer (Nylon 10T/X) material filled with 30% glass fiber. It is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America for injection molding.

Important attributes of Grivory® HT XE 4027 nat are:

- Flame Rated
- Flame Retardant
- Eco-Friendly/Green
- Good UV Resistance
- Heat Resistant
- Typical applications include:
 - Automotive
 - Electrical/Electronic Applications
 - Appliances
 - Lighting Applications
 - Outdoor Applications

General Information				
Filler / Reinforcement		Glass Fiber,30% Filler by Weight		
Additive		Flame Retardant		
Features		Flame Retardant		
		Good UV Resistance		
		High Heat Resistance		
		Hydrolysis Resistant		
		Renewable Resource Content		
Uses		Appliance Components		
		Automotive Applications		
		Automotive Electronics		
		Automotive Exterior Parts		
		Automotive Interior Parts		
		Cell Phones		
		Connectors		
		Electrical/Electronic Applications		
		Lighting Applications		
		Outdoor Applications		
Appearance		Natural Color		
Forms		Granules		
Processing Method		Injection Molding		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.41	--	g/cm ³	ISO 1183

Molding Shrinkage				ISO 294-4
Across Flow	1.0	--	%	
Flow	0.30	--	%	
Water Absorption				ISO 62
Saturation, 23°C	2.3	--	%	
Equilibrium, 23°C, 50% RH	0.90	--	%	
Hardness	Dry	Conditioned	Unit	Test Method
Ball Indentation Hardness	235	235	MPa	ISO 2039-1
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	10000	10000	MPa	ISO 527-2
Tensile Stress (Break)	130	130	MPa	ISO 527-2
Tensile Strain (Break)	2.0	2.0	%	ISO 527-2
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	7.0	7.0	kJ/m ²	
23°C	8.0	8.0	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	50	50	kJ/m ²	
23°C	50	50	kJ/m ²	
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
1.8 MPa, Unannealed	260	--	°C	ISO 75-2/A
8.0 MPa, Unannealed	155	--	°C	ISO 75-2/C
Maximum Use Temperature - Long Term	150	--	°C	Internal Method
ISO Type	PA10T/X, MHF, 11-100, GF30	--		ISO 1874
Melting Temperature ¹	295	--	°C	ISO 11357-3
CLTE				ISO 11359-2
Flow	2.0E-5	--	cm/cm/°C	
Transverse	7.0E-5	--	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	33	33	kV/mm	IEC 60243-1
Comparative Tracking Index	--	600	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Flammability Classification				IEC 60695-11-10, -20
0.400 mm	V-0	--		
1.50 mm	V-0	--		

NOTE

1. 10°C/min

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