

Grivory® XE 4120 black 9916

Polyamide 10T/X Copolymer

EMS-GRIVORY

Message:

Grivory® XE 4120 black 9916 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® XE 4120 black 9916 are:

Flame Rated

Chemical Resistant

Eco-Friendly/Green

Good Mold Release

Heat Resistant

Typical applications include:

Automotive

Electrical/Electronic Applications

Appliances

Engineering/Industrial Parts

Lighting Applications

General Information	
Filler / Reinforcement	Glass Fiber,30% Filler by Weight
Features	Alcohol Resistant
	Aromatic
	Good Flow
	Good Mold Release
	High Heat Resistance
	Hydrolysis Resistant
Uses	Renewable Resource Content
	Appliance Components
	Automotive Applications
	Automotive Electronics
	Automotive Interior Parts
	Cell Phones
	Connectors
	Electrical/Electronic Applications
	Engineering Parts
	Hydraulic Applications
	Lighting Applications
	Pneumatic Applications
Appearance	Black
	Forms
Forms	Granules

Processing Method		Injection Molding		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.43	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	0.80	--	%	
Flow	0.20	--	%	
Water Absorption				ISO 62
Saturation, 23°C	2.2	--	%	
Equilibrium, 23°C, 50% RH	1.1	--	%	
Hardness	Dry	Conditioned	Unit	Test Method
Ball Indentation Hardness	255	255	MPa	ISO 2039-1
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	11500	11500	MPa	ISO 527-2
Tensile Stress (Break)	150	145	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	6.0	6.0	kJ/m ²	
23°C	8.0	8.0	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	45	45	kJ/m ²	
23°C	55	50	kJ/m ²	
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
1.8 MPa, Unannealed	280	--	°C	ISO 75-2/A
8.0 MPa, Unannealed	160	--	°C	ISO 75-2/C
Maximum Use Temperature				Internal Method
Long Term	150	--	°C	
Short Term	250	--	°C	
ISO Type	PA 10T/X, MHF, 11-100, GF30	--		ISO 1874
Melting Temperature ¹	315	--	°C	ISO 11357-3
CLTE				ISO 11359-2
Flow	2.0E-5	--	cm/cm/°C	
Transverse	5.5E-5	--	cm/cm/°C	
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	--	1.0E+11	ohms	IEC 60093
Volume Resistivity	1.0E+12	1.0E+12	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
0.300 mm	V-0	--		
1.50 mm	V-0	--		
NOTE				

1.	10°C/min
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