

Grivory® XE 4102 black 9238

Polyamide 10T/X Copolymer

EMS-GRIVORY

Message:

Grivory® XE 4102 black 9238 is a Polyamide 10T/X Copolymer (Nylon 10T/X) material filled with 30% carbon fiber. It is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America for injection molding.

Important attributes of Grivory® XE 4102 black 9238 are:

Flame Rated

Chemical Resistant

Eco-Friendly/Green

Heat Resistant

Typical applications include:

Automotive

Electrical/Electronic Applications

Engineering/Industrial Parts

General Information				
Filler / Reinforcement		Carbon Fiber,30% Filler by Weight		
Features		Alcohol Resistant		
		Aromatic		
		High Heat Resistance		
		Hydrolysis Resistant		
		Renewable Resource Content		
Uses		Automotive Applications		
		Electrical/Electronic Applications		
		Engineering Parts		
		Hydraulic Applications		
		Pneumatic Applications		
Appearance		Black		
Forms		Granules		
Processing Method		Injection Molding		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.26	--	g/cm³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	0.60	--	%	ISO 62
Flow	0.10	--	%	
Water Absorption				
Saturation, 23°C	2.5	--	%	ISO 62
Equilibrium, 23°C, 50% RH	1.2	--	%	
Hardness	Dry	Conditioned	Unit	
Ball Indentation Hardness	250	250	MPa	ISO 2039-1

Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	23000	23000	MPa	ISO 527-2
Tensile Stress (Break)	250	250	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	60	60	kJ/m ²	
23°C	60	60	kJ/m ²	
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
1.8 MPa, Unannealed	270	--	°C	ISO 75-2/A
8.0 MPa, Unannealed	210	--	°C	ISO 75-2/C
Maximum Use Temperature				Internal Method
Long Term	150	--	°C	
Short Term	250	--	°C	
ISO Type	PA 10T/X, MH, 18-120, CF30	--		ISO 1874
Melting Temperature ¹	295	--	°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	--	15	ohms	IEC 60093
Volume Resistivity	5.0E+3	5.0E+3	ohms·cm	IEC 60093
Electric Strength	3.0	3.0	kV/mm	IEC 60243-1
Flammability	Dry	Conditioned	Unit	Test Method
Flammability Classification (0.800 mm)	HB	--		IEC 60695-11-10, -20
NOTE				
1.	10°C/min			

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