

Grivory® XE 4164 black 9225

Polyamide 10T/X Copolymer

EMS-GRIVORY

Message:

Grivory® XE 4164 black 9225 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 4164 black 9225 are:

- Flame Rated
- Chemical Resistant
- Eco-Friendly/Green
- Good Mold Release
- Heat Resistant

Typical applications include:

- Electrical/Electronic Applications
- Automotive
- Appliances
- Engineering/Industrial Parts
- Tools

General Information				
Filler / Reinforcement		Glass Fiber,30% Filler by Weight		
Features		Alcohol Resistant		
		Aromatic		
		Good Flow		
		Good Mold Release		
		High Heat Resistance		
		Hydrolysis Resistant		
		Renewable Resource Content		
Uses		Appliance Components		
		Automotive Applications		
		Automotive Interior Parts		
		Cell Phones		
		Connectors		
		Electrical/Electronic Applications		
		Engineering Parts		
		Hydraulic Applications		
		Pneumatic Applications		
		Power/Other Tools		
Appearance		Black		
Forms		Granules		
Processing Method		Injection Molding		
Physical	Dry	Conditioned	Unit	Test Method

Density	1.40	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	0.70	--	%	
Flow	0.20	--	%	
Water Absorption				ISO 62
Saturation, 23°C	3.5	--	%	
Equilibrium, 23°C, 50% RH	1.6	--	%	
Hardness	Dry	Conditioned	Unit	Test Method
Ball Indentation Hardness	271	264	MPa	ISO 2039-1
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	10500	10500	MPa	ISO 527-2
Tensile Stress (Break)	150	150	MPa	ISO 527-2
Tensile Strain (Break)	1.8	1.8	%	ISO 527-2
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	8.0	8.0	kJ/m ²	
23°C	10	10	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	35	35	kJ/m ²	
23°C	40	40	kJ/m ²	
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
1.8 MPa, Unannealed	275	--	°C	ISO 75-2/A
8.0 MPa, Unannealed	140	--	°C	ISO 75-2/C
Maximum Use Temperature - Long Term	150	--	°C	Internal Method
ISO Type	PA 10T/X, MHF, 11-100, GF30	--		ISO 1874
Melting Temperature ¹	316	--	°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+10	ohms	IEC 60093
Volume Resistivity	1.0E+11	1.0E+11	ohms·cm	IEC 60093
Electric Strength	32	30	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	HB	--		

1.50 mm	HB	--
NOTE		

1. 10°C/min

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