

Grivory® XE 4101 black 9225

Polyamide 10T/X Copolymer

EMS-GRIVORY

Message:

Grivory® XE 4101 black 9225 is a Polyamide 10T/X Copolymer (Nylon 10T/X) material filled with 40% 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 4101 black 9225 are:

Flame Rated

Chemical Resistant

Eco-Friendly/Green

Good Mold Release

Heat Resistant

Typical applications include:

Plumbing/Piping/Potable Water

Electrical/Electronic Applications

Food Contact Applications

Appliances

Household Applications

General Information	
Filler / Reinforcement	Glass Fiber,40% Filler by Weight
Features	Alcohol Resistant
	Aromatic
	Good Flow
	Good Mold Release
	High Heat Resistance
	Hydrolysis Resistant
Uses	Renewable Resource Content
	Appliance Components
	Connectors
	Electrical/Electronic Applications
	Household Goods
	Power/Other Tools
Agency Ratings	ACS Unspecified Rating
	DVGW W270
	EU Food Contact, Unspecified Rating
	FDA Food Contact, Unspecified Rating
	KTW Unspecified Rating
	NSF 51
	NSF 61
	WRAS Unspecified Rating

Appearance		Black		
Forms		Granules		
Processing Method		Injection Molding		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.49	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	0.90	--	%	
Flow	0.50	--	%	
Water Absorption				ISO 62
Saturation, 23°C	2.0	--	%	
Equilibrium, 23°C, 50% RH	0.90	--	%	
Hardness	Dry	Conditioned	Unit	Test Method
Ball Indentation Hardness	220	230	MPa	ISO 2039-1
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	13000	13000	MPa	ISO 527-2
Tensile Stress (Break)	190	175	MPa	ISO 527-2
Tensile Strain (Break)	2.8	2.6	%	ISO 527-2
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	9.0	8.0	kJ/m ²	
23°C	10	10	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	80	70	kJ/m ²	
23°C	85	75	kJ/m ²	
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
1.8 MPa, Unannealed	265	--	°C	ISO 75-2/A
8.0 MPa, Unannealed	190	--	°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, GF40	--		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+12	1.0E+12	ohms · cm	IEC 60093

Electric Strength	32	31	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
NOTE				
1.	10°C/min			

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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China



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