

Grivory® XE 4095 black 9225

Polyamide 10T/X Copolymer

EMS-GRIVORY

Message:

Grivory® XE 4095 black 9225 is a Polyamide 10T/X Copolymer (Nylon 10T/X) material filled with 50% 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 4095 black 9225 are:

- Flame Rated
- Chemical Resistant
- Eco-Friendly/Green
- Heat Resistant

Typical applications include:

- Automotive
- Engineering/Industrial Parts
- Tools

General Information				
Filler / Reinforcement		Glass Fiber,50% Filler by Weight		
Features		Alcohol Resistant		
		Aromatic		
		High Heat Resistance		
		Hydrolysis Resistant		
		Renewable Resource Content		
Uses		Automotive Applications		
		Automotive Interior Parts		
		Engineering Parts		
		Hydraulic Applications		
		Pneumatic Applications		
		Power/Other Tools		
Appearance		Black		
Forms		Granules		
Processing Method		Injection Molding		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.58	--	g/cm³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	0.70	--	%	ISO 62
Flow	0.20	--	%	
Water Absorption				
Saturation, 23°C	1.7	--	%	ISO 62
Equilibrium, 23°C, 50% RH	0.80	--	%	
Hardness	Dry	Conditioned	Unit	Test Method

Ball Indentation Hardness	280	280	MPa	ISO 2039-1
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	17000	16500	MPa	ISO 527-2
Tensile Stress (Break)	220	200	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	10	10	kJ/m ²	
23°C	11	11	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	75	70	kJ/m ²	
23°C	80	70	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	240	--	°C	ISO 75-2/C
Maximum Use Temperature				Internal Method
Long Term	150	--	°C	
Short Term	260	--	°C	
ISO Type	PA 10T/X, MH, 14-100, GF50	--		ISO 1874
Melting Temperature ¹	295	--	°C	ISO 11357-3
CLTE				ISO 11359-2
Flow	1.5E-5	--	cm/cm/°C	
Transverse	6.0E-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				IEC 60695-11-10, -20
0.400 mm	HB	--		
1.50 mm	HB	--		
NOTE				
1.	10°C/min			

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