

Grivory® XE 4063 black 9238

Polyamide 10T/X Copolymer

EMS-GRIVORY

Message:

Grivory® XE 4063 black 9238 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 4063 black 9238 are:

- Flame Rated
- Flame Retardant
- Chemical Resistant
- Good Mold Release
- Heat Resistant
- Typical applications include:
 - Automotive
 - Appliances
 - Electrical/Electronic Applications
 - Engineering/Industrial Parts
 - Lighting Applications

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

Density	1.37	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	0.80	--	%	
Flow	0.50	--	%	
Water Absorption				ISO 62
Saturation, 23°C	2.4	--	%	
Equilibrium, 23°C, 50% RH	1.0	--	%	
Hardness	Dry	Conditioned	Unit	Test Method
Ball Indentation Hardness	210	210	MPa	ISO 2039-1
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	9500	9500	MPa	ISO 527-2
Tensile Stress (Break)	180	165	MPa	ISO 527-2
Tensile Strain (Break)	3.0	2.8	%	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	70	60	kJ/m ²	
23°C	80	70	kJ/m ²	
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
1.8 MPa, Unannealed	260	--	°C	ISO 75-2/A
8.0 MPa, Unannealed	150	--	°C	ISO 75-2/C
Maximum Use Temperature				Internal Method
Long Term	150	--	°C	
Short Term	250	--	°C	
ISO Type	PA 10T/X, MH, 14-100, GF30	--		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	38	37	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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