

Grivory® XE 4217 black 9233

Polyamide 6T/66 Copolymer

EMS-GRIVORY

Message:

Grivory® XE 4217 black 9233 is a Polyamide 6T/66 Copolymer (Nylon 6T/66) material filled with 45% 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 4217 black 9233 are:

Flame Rated

Chemical Resistant

Eco-Friendly/Green

Heat Resistant

Typical applications include:

Automotive

Electrical/Electronic Applications

Engineering/Industrial Parts

Tools

General Information				
Filler / Reinforcement		Glass Fiber,45% Filler by Weight		
Features		Alcohol Resistant		
		Aromatic		
		High Heat Resistance		
		Renewable Resource Content		
Uses		Automotive Applications		
		Automotive Interior Parts		
		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	1.58	--	g/cm³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	0.80	--	%	ISO 62
Flow	0.10	--	%	
Water Absorption				ISO 62
Saturation, 23°C	4.3	--	%	ISO 62
Equilibrium, 23°C, 50% RH	1.7	--	%	

Hardness	Dry	Conditioned	Unit	Test Method
Ball Indentation Hardness	270	250	MPa	ISO 2039-1
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	15000	13000	MPa	ISO 527-2
Tensile Stress (Break)	230	165	MPa	ISO 527-2
Tensile Strain (Break)	2.7	2.7	%	ISO 527-2
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	9.0	9.0	kJ/m ²	
23°C	11	11	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	60	60	kJ/m ²	
23°C	70	80	kJ/m ²	
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
1.8 MPa, Unannealed	240	--	°C	ISO 75-2/A
8.0 MPa, Unannealed	170	--	°C	ISO 75-2/C
Maximum Use Temperature				Internal Method
Long Term	150	--	°C	
Short Term	250	--	°C	
ISO Type	PA6T/66+X, MH, 14-110, GF45 --			ISO 1874
Melting Temperature ¹	300	--	°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+12	ohms	IEC 60093
Volume Resistivity	1.0E+12	1.0E+12	ohms·cm	IEC 60093
Electric Strength	45	45	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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