

Grivory® HT2C-3X black 9833

Polyamide 6T/66 Copolymer

EMS-GRIVORY

Message:

Grivory® HT2C-3X black 9833 is a Polyamide 6T/66 Copolymer (Nylon 6T/66) material filled with 30% carbon fiber. It is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America for injection molding.

Important attributes of Grivory® HT2C-3X black 9833 are:

Flame Rated

Antistatic

Chemical Resistant

Heat Resistant

Wear Resistant

Typical applications include:

Automotive

Electrical/Electronic Applications

Engineering/Industrial Parts

Household Applications

Tools

General Information				
Filler / Reinforcement		Carbon Fiber,30% Filler by Weight		
Additive		Antistatic		
Features		Alcohol Resistant		
		Antistatic		
		Aromatic		
		Good Wear Resistance		
		High Heat Resistance		
Uses		Automotive Applications		
		Automotive Interior Parts		
		Electrical/Electronic Applications		
		Engineering Parts		
		Household Goods		
		Hydraulic Applications		
		Pneumatic Applications		
		Power/Other Tools		
Appearance		Black		
Forms		Granules		
Processing Method		Injection Molding		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.32	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	0.50	--	%	

Flow	0.10	--	%	
Water Absorption				ISO 62
Saturation, 23°C	4.5	--	%	
Equilibrium, 23°C, 50% RH	1.5	--	%	
Hardness	Dry	Conditioned	Unit	Test Method
Ball Indentation Hardness	300	290	MPa	ISO 2039-1
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	24500	24000	MPa	ISO 527-2
Tensile Stress (Break)	275	265	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	7.0	7.0	kJ/m ²	
23°C	8.0	8.0	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	50	50	kJ/m ²	
23°C	55	55	kJ/m ²	
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
1.8 MPa, Unannealed	290	--	°C	ISO 75-2/A
8.0 MPa, Unannealed	245	--	°C	ISO 75-2/C
Maximum Use Temperature				Internal Method
Long Term	140	--	°C	
Short Term	240	--	°C	
ISO Type	PA 6T/66, MH, 14-250, CF30	--		ISO 1874
Melting Temperature ¹	310	--	°C	ISO 11357-3
CLTE				ISO 11359-2
Flow	1.5E-5	--	cm/cm/°C	
Transverse	7.5E-5	--	cm/cm/°C	
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	--	1.0E+2	ohms	IEC 60093
Volume Resistivity	5.0E+3	5.0E+3	ohms·cm	IEC 60093
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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Recommended distributors for this material

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

