

Grilamid® TRVX-50X9 black 9230

Polyamide 12X

EMS-GRIVORY

Message:

Grilamid® TRVX-50X9 black 9230 is a Polyamide 12X (Nylon 12X) material filled with 50% glass fiber. It is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America for injection molding. Primary attribute of Grilamid® TRVX-50X9 black 9230: Flame Rated.

Typical applications include:

- Automotive
- Electrical/Electronic Applications
- Appliances
- Engineering/Industrial Parts
- Household Applications

General Information				
Filler / Reinforcement		Glass Fiber,50% Filler by Weight		
Uses		Appliance Components		
		Automotive Applications		
		Automotive Electronics		
		Cell Phones		
		Electrical/Electronic Applications		
		Engineering Parts		
		Household Goods		
		Hydraulic Applications		
		Lighting Applications		
		Medical/Healthcare Applications		
		Pneumatic Applications		
		Power/Other Tools		
Appearance		Black		
Forms		Granules		
Processing Method		Injection Molding		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.50	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	0.10	--	%	
Flow	0.10	--	%	
Water Absorption				ISO 62
Saturation, 23°C	1.0	--	%	
Equilibrium, 23°C, 50% RH	0.30	--	%	
Hardness	Dry	Conditioned	Unit	Test Method
Ball Indentation Hardness	--	190	MPa	ISO 2039-1
Mechanical	Dry	Conditioned	Unit	Test Method

Tensile Modulus	--	12500	MPa	ISO 527-2
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	--	15	kJ/m ²	
23°C	--	16	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	--	60	kJ/m ²	
23°C	--	65	kJ/m ²	
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
1.8 MPa, Unannealed	115	--	°C	ISO 75-2/A
8.0 MPa, Unannealed	105	--	°C	ISO 75-2/C
Maximum Use Temperature				Internal Method
Long Term	80 to 110	--	°C	
Short Term	120	--	°C	
ISO Type	PA MACM12+X, MH, 12-120, GF50			ISO 1874
Glass Transition Temperature ¹	125	--	°C	ISO 11357-2
CLTE				ISO 11359-2
Flow	2.0E-5	--	cm/cm/°C	
Transverse	8.0E-5	--	cm/cm/°C	
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	--	1.0E+12	ohms	IEC 60093
Volume Resistivity	--	1.0E+13	ohms·cm	IEC 60093
Electric Strength	--	32	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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