

Grilamid® TRVX-50X9 nat

Polyamide 12

EMS-GRIVORY

Message:

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

Typical applications include:

Appliances

Automotive

Electrical/Electronic Applications

General Information				
UL YellowCard		E53898-100723455		
Filler / Reinforcement		Glass Fiber,50% Filler by Weight		
Uses		Appliance Components		
		Automotive Applications		
		Electrical/Electronic Applications		
Appearance		Natural Color		
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	--	%	ISO 62
Flow	0.10	--	%	
Water Absorption				ISO 62
Saturation, 23°C	1.0	--	%	ISO 62
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
Tensile Stress (Break)	--	160	MPa	ISO 527-2
Tensile Strain (Break)	--	2.1	%	ISO 527-2
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	--	15	kJ/m ²	ISO 179/1eU
23°C	--	16	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179/1eU

-30°C	--	60	kJ/m²	
23°C	--	65	kJ/m²	
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
Continuous Use Temperature				Internal Method
-- ¹	80.0 to 110	--	°C	
-- ²	120	--	°C	
Glass Transition Temperature ³	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
Additional Information	Dry	Conditioned		Test Method
ISO Type	PA MACM12+X, MH, 12-120, GF50			ISO 1874
NOTE				
1.	Long Term			
2.	Short Term			
3.	10°C/min			

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