

Grilon® TSG-50/4 FA

Polyamide 66/6 Copolymer

EMS-GRIVORY

Message:

Grilon® TSG-50/4 FA is a Polyamide 66/6 Copolymer (Nylon 66/6) material filled with 50% glass fiber. It is available in Asia Pacific, Europe, or North America for injection molding. Primary attribute of Grilon® TSG-50/4 FA: Flame Rated.

Typical applications include:

Food Contact Applications

Household Applications

Medical/Healthcare

Sporting Goods

General Information				
Filler / Reinforcement	Glass Fiber,50% Filler by Weight			
Uses	Household Goods Medical Packaging Sporting Goods			
Agency Ratings	EU Food Contact, Unspecified Rating FDA Food Contact, Unspecified Rating			
Forms	Granules			
Processing Method	Injection Molding			
Physical	Dry	Conditioned	Unit	Test Method
Density	1.55	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	0.30	--	%	
Flow	0.10	--	%	
Water Absorption				ISO 62
Saturation, 23°C	5.0	--	%	
Equilibrium, 23°C, 50% RH	1.5	--	%	
Hardness	Dry	Conditioned	Unit	Test Method
Ball Indentation Hardness	280	160	MPa	ISO 2039-1
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	17500	12500	MPa	ISO 527-2
Tensile Stress (Break)	250	170	MPa	ISO 527-2
Tensile Strain (Break)	2.4	4.5	%	ISO 527-2
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	12	12	kJ/m ²	
23°C	14	20	kJ/m ²	

Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	70	80	kJ/m ²	
23°C	80	85	kJ/m ²	
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
1.8 MPa, Unannealed	250	--	°C	ISO 75-2/A
8.0 MPa, Unannealed	200	--	°C	ISO 75-2/C
Maximum Use Temperature				Internal Method
Long Term	100 to 120	--	°C	
Short Term	220	--	°C	
ISO Type	PA 66+PA 6, MHR, 14-190 N, GF-50			ISO 1874
Melting Temperature ¹	260	--	°C	ISO 11357-3
CLTE				ISO 11359-2
Flow	1.5E-5	--	cm/cm/°C	
Transverse	9.0E-5	--	cm/cm/°C	
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	--	1.0E+12	ohms	IEC 60093
Volume Resistivity	1.0E+14	1.0E+13	ohms·cm	IEC 60093
Electric Strength	27	22	kV/mm	IEC 60243-1
Comparative Tracking Index	--	550	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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