

Grilon® TSGL-50-4 nat

Polyamide 66/6 Copolymer

EMS-GRIVORY

Message:

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

Typical applications include:

- Automotive
- Electrical/Electronic Applications
- Appliances
- Consumer Goods
- Engineering/Industrial Parts

General Information				
UL YellowCard		E53898-100126204		
Filler / Reinforcement		Long Glass Fiber,50% Filler by Weight		
Uses		Appliance Components		
		Automotive Applications		
		Automotive Exterior Parts		
		Automotive Interior Parts		
		Connectors		
		Consumer Applications		
		Electrical/Electronic Applications		
		Engineering Parts		
		Household Goods		
		Hydraulic Applications		
		Industrial Applications		
		Pneumatic Applications		
		Power/Other Tools		
		Sporting Goods		
Forms		Granules		
Processing Method		Injection Molding		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.55	--	g/cm³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	0.30	--	%	
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	310	200	MPa	ISO 2039-1
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	17400	12500	MPa	ISO 527-2
Tensile Stress (Break)	265	185	MPa	ISO 527-2
Tensile Strain (Break)	2.3	2.6	%	ISO 527-2
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	40	45	kJ/m ²	
23°C	40	45	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	95	75	kJ/m ²	
23°C	100	110	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	230	--	°C	ISO 75-2/C
Continuous Use Temperature				Internal Method
-- ¹	120 to 130	--	°C	
-- ²	220	--	°C	
Melting Temperature ³	260	--	°C	ISO 11357-3
CLTE				ISO 11359-2
Flow	2.0E-5	--	cm/cm/°C	
Transverse	5.0E-5	--	cm/cm/°C	
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	--	1.0E+12	ohms	IEC 60093
Volume Resistivity	1.0E+13	1.0E+12	ohms·cm	IEC 60093
Electric Strength	27	22	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	PA66+PA6, MH, 14-190, GF50	--		ISO 1874
NOTE				
1.	Long Term			
2.	Short Term			
3.	10°C/min			

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