

Grilon® TSGL-60/4 nat

Polyamide 66/6 Copolymer

EMS-GRIVORY

Message:

Grilon® TSGL-60/4 nat is a Polyamide 66/6 Copolymer (Nylon 66/6) material filled with 60% 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-60/4 nat: Flame Rated.

Typical applications include:

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

General Information				
Filler / Reinforcement		Long Glass Fiber,60% 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	1.68	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	0.20	--	%	
Flow	0.10	--	%	
Water Absorption				ISO 62
Saturation, 23°C	4.0	--	%	
Equilibrium, 23°C, 50% RH	1.2	--	%	
Hardness	Dry	Conditioned	Unit	Test Method
Ball Indentation Hardness	340	230	MPa	ISO 2039-1

Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	22000	16500	MPa	ISO 527-2
Tensile Stress (Break)	280	205	MPa	ISO 527-2
Tensile Strain (Break)	2.1	2.3	%	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	110	95	kJ/m ²	
23°C	110	120	kJ/m ²	
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
1.8 MPa, Unannealed	255	--	°C	ISO 75-2/A
8.0 MPa, Unannealed	235	--	°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	4.0E-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, 14-220, GF60	--		ISO 1874
NOTE				
1.	Long Term			
2.	Short Term			
3.	10°C/min			

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