

Grilon® TSGL-40/4 nat

Polyamide 66/6 Copolymer

EMS-GRIVORY

Message:

Grilon® TSGL-40/4 nat is a Polyamide 66/6 Copolymer (Nylon 66/6) material filled with 40% long glass fiber. It is available in Asia Pacific, Europe, or North America. Primary attribute of Grilon® TSGL-40/4 nat: Flame Rated.

General Information				
Filler / Reinforcement		Long Glass Fiber,40% Filler by Weight		
Appearance		Natural Color		
Forms		Granules		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.45	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	0.40	--	%	
Flow	0.10	--	%	
Water Absorption				ISO 62
Saturation, 23°C	5.0	--	%	
Equilibrium, 23°C, 50% RH	1.8	--	%	
Hardness	Dry	Conditioned	Unit	Test Method
Ball Indentation Hardness	275	180	MPa	ISO 2039-1
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	13000	9500	MPa	ISO 527-2
Tensile Stress (Break)	230	165	MPa	ISO 527-2
Tensile Strain (Break)	2.5	2.8	%	ISO 527-2
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	30	35	kJ/m ²	
23°C	30	35	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	65	60	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	220	--	°C	ISO 75-2/C
Maximum Use Temperature				Internal Method

Long Term	120 to 130	--	°C	
Short Term	220	--	°C	
ISO Type	PA66+PA6, MH, 14-140, GF40	--		ISO 1874
Melting Temperature ¹	260	--	°C	ISO 11357-3
CLTE				ISO 11359-2
Flow	2.0E-5	--	cm/cm/°C	
Transverse	6.0E-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	29	24	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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