

Grilon® TSG-30/4 V0

Polyamide 66/6 Copolymer

EMS-GRIVORY

Message:

Grilon® TSG-30/4 V0 is a Polyamide 66/6 Copolymer (Nylon 66/6) material filled with 30% glass fiber. It is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America for injection molding.

Important attributes of Grilon® TSG-30/4 V0 are:

Flame Rated

RoHS Compliant

Flame Retardant

Good UV Resistance

Typical applications include:

Automotive

Electrical/Electronic Applications

Appliances

Hose/Tubing

Wire & Cable

General Information				
UL YellowCard		E53898-100071782	E53898-100351082	
Filler / Reinforcement		Glass Fiber,30% Filler by Weight		
Additive		Flame Retardant		
Features		Flame Retardant		
		Good UV Resistance		
		Self Extinguishing		
Uses		Appliance Components		
		Automotive Applications		
		Connectors		
		Electrical/Electronic Applications		
		Tubing		
		Wire & Cable Applications		
RoHS Compliance		RoHS Compliant		
Forms		Granules		
Processing Method		Injection Molding		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.44	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	0.70	--	%	
Flow	0.20	--	%	
Water Absorption				ISO 62
Saturation, 23°C	4.0	--	%	

Equilibrium, 23°C, 50% RH	1.5	--	%	
Hardness	Dry	Conditioned	Unit	Test Method
Ball Indentation Hardness	255	130	MPa	ISO 2039-1
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	10500	6500	MPa	ISO 527-2
Tensile Stress (Break)	150	90.0	MPa	ISO 527-2
Tensile Strain (Break)	2.5	4.5	%	ISO 527-2
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	9.0	8.5	kJ/m ²	
23°C	9.5	14	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	60	60	kJ/m ²	
23°C	65	70	kJ/m ²	
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
1.8 MPa, Unannealed	235	--	°C	ISO 75-2/A
8.0 MPa, Unannealed	165	--	°C	ISO 75-2/C
Continuous Use Temperature				Internal Method
-- ¹	100 to 120	--	°C	
-- ²	220	--	°C	
Melting Temperature ³	260	--	°C	ISO 11357-3
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	--	1.0E+10	ohms	IEC 60093
Volume Resistivity	1.0E+12	1.0E+12	ohms·cm	IEC 60093
Comparative Tracking Index	--	600	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Flammability Classification (0.800 mm)	V-0	--		IEC 60695-11-10, -20
Additional Information	Dry	Conditioned		Test Method
ISO Type	PA 66 + PA6, MFHR, 14-110N, GF 30 FR(40)			ISO 1874
NOTE				
1.	Long Term			
2.	Short Term			
3.	10°C/min			

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