

Grilon® TSM-30/4

Polyamide 66/6 Copolymer

EMS-GRIVORY

Message:

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

Important attributes of Grilon® TSM-30/4 are:

Flame Rated

RoHS Compliant

General Information				
Filler / Reinforcement		Mineral,30% Filler by Weight		
RoHS Compliance		RoHS Compliant		
Forms		Granules		
Processing Method		Injection Molding		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.33	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	1.4	--	%	
Flow	1.4	--	%	
Water Absorption				ISO 62
Saturation, 23°C	6.0	--	%	
Equilibrium, 23°C, 50% RH	2.0	--	%	
Hardness	Dry	Conditioned	Unit	Test Method
Ball Indentation Hardness	180	135	MPa	ISO 2039-1
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	4800	2100	MPa	ISO 527-2
Tensile Stress (Break)	85.0	50.0	MPa	ISO 527-2
Tensile Strain (Break)	7.0	35	%	ISO 527-2
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	3.0	4.0	kJ/m ²	
23°C	4.0	5.0	kJ/m ²	
Charpy Unnotched Impact Strength (-30°C)				ISO 179/1eU
	40	50	kJ/m ²	
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	100	--	°C	ISO 75-2/A
Continuous Use Temperature				Internal Method

-- ¹	90.0 to 120	--	°C	
-- ²	180	--	°C	
Melting Temperature ³	260	--	°C	ISO 11357-3
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	--	1.0E+11	ohms	IEC 60093
Volume Resistivity	1.0E+13	1.0E+12	ohms · cm	IEC 60093
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	PA 66+PA 6, MHR, 14-050N, MĐ 30			ISO 1874
NOTE				
1.	Long Term			
2.	Short Term			
3.	10°C/min			

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