

Grilon® TSM-40/4

Polyamide 66/6 Copolymer

EMS-GRIVORY

Message:

Grilon® TSM-40/4 is a Polyamide 66/6 Copolymer (Nylon 66/6) material filled with 40% mineral. It is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America for injection molding.

Important attributes of Grilon® TSM-40/4 are:

Flame Rated

RoHS Compliant

General Information				
Filler / Reinforcement		Mineral,40% Filler by Weight		
RoHS Compliance		RoHS Compliant		
Forms		Granules		
Processing Method		Injection Molding		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.46	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	1.1	--	%	
Flow	1.1	--	%	
Water Absorption				ISO 62
Saturation, 23°C	6.0	--	%	
Equilibrium, 23°C, 50% RH	2.0	--	%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	6000	3800	MPa	ISO 527-2
Tensile Stress (Break)	90.0	65.0	MPa	ISO 527-2
Tensile Strain (Break)	7.0	22	%	ISO 527-2
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength (23°C)	4.0	5.0	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	80	150	kJ/m ²	ISO 179/1eU
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	110	--	°C	ISO 75-2/A
Continuous Use Temperature				Internal Method
-- ¹	100 to 120	--	°C	
-- ²	180	--	°C	
Melting Temperature ³	260	--	°C	ISO 11357-3
CLTE				ISO 11359-2

Flow	7.0E-5	--	cm/cm/°C	
Transverse	7.0E-5	--	cm/cm/°C	
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	PA66+PA6, MHR, 14-070N, MD-40			ISO 1874
NOTE				
1.	Long Term			
2.	Short Term			
3.	10°C/min			

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