Grilon® TSG-50/4 W

Polyamide 66/6 Copolymer

EMS-GRIVORY

Message:

Grilon® TSG-50/4 W is a Polyamide 66/6 Copolymer (Nylon 66/6) material filled with 50% 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-50/4 W are:
Flame Rated
RoHS Compliant
Plasticized
Typical applications include:
Automotive
Consumer Goods
Electrical/Electronic Applications
Engineering/Industrial Parts
Industrial Applications

General Information	
UL YellowCard	E53898-100172078
Filler / Reinforcement	Glass Fiber,50% Filler by Weight
Additive	Plasticizer
Features	Plasticized
Uses	Automotive Applications Consumer Applications Electrical/Electronic Applications Engineering Parts Hydraulic Applications Industrial Applications Pneumatic Applications Sporting Goods
RoHS Compliance	RoHS Compliant
Forms	Granules
Processing Method	Injection Molding

Physical	Dry	Conditioned	Unit	Test Method
Density	1.55	--	g/cm³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	0.30	--	%	
Flow	0.10	--	%	
Water Absorption				ISO 62
Saturation, 23°C	5.0	--	%	
Equilibrium, 23°C, 50% RH	1.5	--	%	

Hardness	Dry	Conditioned	Unit	Test Method

Ball Indentation Hardness	270	150	MPa	ISO 2039-1
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	16500	12000	MPa	ISO 527-2
Tensile Stress (Break)	230	150	MPa	ISO 527-2
Tensile Strain (Break)	2.5	5.0	%	ISO 527-2
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	13	12	kJ/m^2	
23°C	14	18	kJ/m^2	
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	90	80	kJ/m^2	
23°C	90	100	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	215	--	°C	ISO 75-2/C
Continuous Use Temperature				Internal Method
-- [1]	130 to 150	--	°C	
-- [2]	230	--	°C	
Melting Temperature [3]	260	--	°C	ISO 11357-3
CLTE				ISO 11359-2
Flow	1.5E-5	--	cm/cm/°C	
Transverse	9.0E-5	--	cm/cm/°C	
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	--	1.0E+12	ohms	IEC 60093
Volume Resistivity	1.0E+14	1.0E+13	ohms·cm	IEC 60093
Electric Strength	27	22	kV/mm	IEC 60243-1
Comparative Tracking Index	--	525	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	PA 66+PA 6, MHR, 14-160 N, GF-50			ISO 1874
NOTE				
1.	Long Term			
2.	Short Term			
3.	10°C/min			

infringement occurs, please contact us immediately.

Recommended distributors for this material

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