Grilon® TSG-30/4 H black 9836

Polyamide 66/6 Copolymer

EMS-GRIVORY

Message:

Grilon® TSG-30/4 H black 9836 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 H black 9836 are:
Flame Rated
RoHS Compliant
Heat Stabilizer
High Viscosity
Typical applications include:
Automotive
Consumer Goods
Industrial Applications

General Information	
Filler / Reinforcement	Glass Fiber,30% Filler by Weight
Additive	Heat Stabilizer
Features	Heat Stabilized High Viscosity
Uses	Automotive Applications Consumer Applications Industrial Applications
RoHS Compliance	RoHS Compliant
Appearance	Black
Forms	Granules
Processing Method	Injection Molding

Physical	Dry	Conditioned	Unit	Test Method
Density	1.35	--	g/cm³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	0.60	--	%	
Flow	0.10	--	%	
Water Absorption				ISO 62
Saturation, 23°C	4.5	--	%	
Equilibrium, 23°C, 50% RH	2.0	--	%	

Hardness	Dry	Conditioned	Unit	Test Method
Ball Indentation Hardness	205	150	MPa	ISO 2039-1

Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	10000	6200	MPa	ISO 527-2
Tensile Stress				ISO 527-2

Yield	--	110	MPa	
Break	180	100	MPa	
Tensile Strain				ISO 527-2
Yield	--	4.0	%	
Break	3.0	--	%	
Nominal Tensile Strain at Break	--	8.0	%	ISO 527-2
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	8.0	6.0	kJ/m²	
23°C	10	12	kJ/m²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	65	60	kJ/m²	
23°C	75	80	kJ/m²	
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
1.8 MPa, Unannealed	235	--	°C	ISO 75-2/A
8.0 MPa, Unannealed	130	--	°C	ISO 75-2/C
Continuous Use Temperature				Internal Method
-- [1]	100 to 130	--	°C	
-- [2]	200	--	°C	
Melting Temperature [3]	260	--	°C	ISO 11357-3
CLTE				ISO 11359-2
Flow	2.0E-5	--	cm/cm/°C	
Transverse	7.0E-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	25	21	kV/mm	IEC 60243-1
Comparative Tracking Index	--	475	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 + PA6, MHR, 14-100N, GF-30			ISO 1874
NOTE				
1.	Long Term			
2.	Short Term			
3.	10°C/min			

Recommended distributors for this material

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