

Grilon® TSG-30/4 H black 9839

Polyamide 66/6 Copolymer

EMS-GRIVORY

Message:

Grilon® TSG-30/4 H black 9839 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 9839 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/cm ³	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	PA66+ PA6, MHR, 14-100N, GF-30			ISO 1874
NOTE				
1.	Long Term			
2.	Short Term			
3.	10°C/min			

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