

Grilon® TSG-35/4 H black 9836

Polyamide 66/6 Copolymer

EMS-GRIVORY

Message:

Grilon® TSG-35/4 H black 9836 is a Polyamide 66/6 Copolymer (Nylon 66/6) material filled with 35% 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-35/4 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,35% 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	1.40	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	0.50	--	%	
Flow	0.10	--	%	
Water Absorption				ISO 62
Saturation, 23°C	5.0	--	%	
Equilibrium, 23°C, 50% RH	2.0	--	%	
Hardness	Dry	Conditioned	Unit	Test Method
Ball Indentation Hardness	220	115	MPa	ISO 2039-1
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	11000	7500	MPa	ISO 527-2
Tensile Stress (Break)	190	130	MPa	ISO 527-2

Tensile Strain (Break)	3.0	6.0	%	ISO 527-2
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	8.0	8.0	kJ/m²	
23°C	10	13	kJ/m²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	75	85	kJ/m²	
23°C	90	100	kJ/m²	
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
1.8 MPa, Unannealed	240	--	°C	ISO 75-2/A
8.0 MPa, Unannealed	175	--	°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	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	26	21	kV/mm	IEC 60243-1
Comparative Tracking Index	--	500	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, 14-110 N, GF-35			ISO 1874
NOTE				
1.	Long Term			
2.	Short Term			
3.	10°C/min			

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