

Grilon® TSGL-40/4 FA black 9840

Polyamide 66/6 Copolymer

EMS-GRIVORY

Message:

Grilon® TSGL-40/4 FA black 9840 is a Polyamide 66/6 Copolymer (Nylon 66/6) material filled with 40% long glass fiber. It is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America for injection molding.

Important attributes of Grilon® TSGL-40/4 FA black 9840 are:

- Flame Rated
- Food Contact Acceptable

Typical applications include:

- Automotive
- Electrical/Electronic Applications
- Food Contact Applications
- Appliances
- Consumer Goods

General Information				
UL YellowCard		E53898-100134234		
Filler / Reinforcement		Long Glass Fiber,40% Filler by Weight		
Features		Food Contact Acceptable		
Uses		Appliance Components		
		Automotive Applications		
		Automotive Exterior Parts		
		Automotive Interior Parts		
		Connectors		
		Consumer Applications		
		Electrical/Electronic Applications		
		Engineering Parts		
		Household Goods		
		Hydraulic Applications		
		Industrial Applications		
		Pneumatic Applications		
		Power/Other Tools		
		Sporting Goods		
Agency Ratings		EU Food Contact, Unspecified Rating		
		FDA Food Contact, Unspecified Rating		
		NSF 61		
Forms		Granules		
Processing Method		Injection Molding		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.45	--	g/cm ³	ISO 1183

Molding Shrinkage				ISO 294-4
Across Flow	0.40	--	%	
Flow	0.10	--	%	
Water Absorption				ISO 62
Saturation, 23°C	5.0	--	%	
Equilibrium, 23°C, 50% RH	1.8	--	%	
Hardness	Dry	Conditioned	Unit	Test Method
Ball Indentation Hardness	280	185	MPa	ISO 2039-1
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	13500	10000	MPa	ISO 527-2
Tensile Stress (Break)	220	160	MPa	ISO 527-2
Tensile Strain (Break)	2.1	2.5	%	ISO 527-2
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	25	30	kJ/m ²	
23°C	25	30	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	60	55	kJ/m ²	
23°C	75	80	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	225	--	°C	ISO 75-2/C
Continuous Use Temperature				Internal Method
-- ¹	110 to 120	--	°C	
-- ²	220	--	°C	
Melting Temperature ³	260	--	°C	ISO 11357-3
CLTE				ISO 11359-2
Flow	2.0E-5	--	cm/cm/°C	
Transverse	6.0E-5	--	cm/cm/°C	
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	--	1.0E+12	ohms	IEC 60093
Volume Resistivity	1.0E+13	1.0E+12	ohms·cm	IEC 60093
Electric Strength	27	22	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	PA66+PA6, MH, 14-140N, GF40-		ISO 1874
NOTE			
1.	Long Term		
2.	Short Term		
3.	10°C/min		

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