

Grilon® TSC-40/4 EC black 9832

Polyamide 66/6 Copolymer

EMS-GRIVORY

Message:

Grilon® TSC-40/4 EC black 9832 is a Polyamide 66/6 Copolymer (Nylon 66/6) material filled with 40% carbon fiber. It is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America for injection molding.

Important attributes of Grilon® TSC-40/4 EC black 9832 are:

Flame Rated

RoHS Compliant

Antistatic

Conductive

Wear Resistant

Typical applications include:

Appliances

Automotive

Consumer Goods

Electrical/Electronic Applications

Engineering/Industrial Parts

General Information				
Filler / Reinforcement		Carbon Fiber,40% Filler by Weight		
Additive		Antistatic		
Features		Antistatic		
		Electrically Conductive		
		Good Wear Resistance		
		Low Friction		
Uses		Appliance Components		
		Automotive Applications		
		Consumer Applications		
		Electrical/Electronic Applications		
		Engineering Parts		
		Industrial Applications		
		Power/Other Tools		
RoHS Compliance		RoHS Compliant		
Appearance		Black		
Forms		Granules		
Processing Method		Injection Molding		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.31	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	0.20	--	%	

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	190	110	MPa	ISO 2039-1
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	26000	17000	MPa	ISO 527-2
Tensile Stress (Break)	260	200	MPa	ISO 527-2
Tensile Strain (Break)	2.0	4.0	%	ISO 527-2
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	7.0	7.0	kJ/m ²	
23°C	10	16	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	50	50	kJ/m ²	
23°C	60	85	kJ/m ²	
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
1.8 MPa, Unannealed	240	--	°C	ISO 75-2/A
8.0 MPa, Unannealed	185	--	°C	ISO 75-2/C
Continuous Use Temperature				Internal Method
-- ¹	90.0 to 120	--	°C	
-- ²	200	--	°C	
Melting Temperature ³	260	--	°C	ISO 11357-3
CLTE				ISO 11359-2
Flow	1.0E-5	--	cm/cm/°C	
Transverse	7.0E-5	--	cm/cm/°C	
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	--	1.0E+2	ohms	IEC 60093
Volume Resistivity	1.0E+4	1.0E+4	ohms · cm	IEC 60093
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, MHRS, 14-250 N, CF40			ISO 1874
NOTE				
1.	Long Term			
2.	Short Term			

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