

Grivory® GCL-3H anthracite

Polyamide 66 + PA 6I/X

EMS-GRIVORY

Message:

Grivory® GCL-3H anthracite is a Polyamide 66 + PA 6I/X (Nylon 66+Nylon 6I/X) material filled with 30% long carbon fiber. It is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America for injection molding.

Important attributes of Grivory® GCL-3H anthracite are:

Flame Rated

Antistatic

Heat Resistant

Typical applications include:

Automotive

Electrical/Electronic Applications

Appliances

Engineering/Industrial Parts

Household Applications

General Information				
Filler / Reinforcement		Long Carbon Fiber,30% Filler by Weight		
Additive		Antistatic		
Features		Antistatic		
		High Heat Resistance		
Uses		Appliance Components		
		Automotive Applications		
		Automotive Electronics		
		Automotive Exterior Parts		
		Automotive Interior Parts		
		Connectors		
		Electrical/Electronic Applications		
		Engineering Parts		
		Household Goods		
		Hydraulic Applications		
		Lighting Applications		
		Pneumatic Applications		
		Power/Other Tools		
		Sporting Goods		
Appearance		Dark Grey		
Forms		Granules		
Processing Method		Injection Molding		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.28	--	g/cm ³	ISO 1183

Molding Shrinkage - Across Flow	0.10	--	%	ISO 294-4
Water Absorption				ISO 62
Saturation, 23°C	4.7	--	%	
Equilibrium, 23°C, 50% RH	1.5	--	%	
Hardness	Dry	Conditioned	Unit	Test Method
Ball Indentation Hardness	320	285	MPa	ISO 2039-1
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	22500	21500	MPa	ISO 527-2
Tensile Stress (Break)	215	270	MPa	ISO 527-2
Tensile Strain (Break)	1.6	1.7	%	ISO 527-2
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	20	20	kJ/m ²	
23°C	16	16	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	55	65	kJ/m ²	
23°C	55	65	kJ/m ²	
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
1.8 MPa, Unannealed	255	--	°C	ISO 75-2/A
8.0 MPa, Unannealed	240	--	°C	ISO 75-2/C
Maximum Use Temperature				Internal Method
Long Term	100 to 120	--	°C	
Short Term	220	--	°C	
ISO Type	PA66+PA6I/X, MH, 14-220N, CF30			ISO 1874
Melting Temperature ¹	260	--	°C	ISO 11357-3
CLTE				ISO 11359-2
Flow	1.0E-5	--	cm/cm/°C	
Transverse	2.5E-5	--	cm/cm/°C	
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	--	50	ohms	IEC 60093
Volume Resistivity	3.0E+3	3.0E+3	ohms·cm	IEC 60093
Flammability	Dry	Conditioned	Unit	Test Method
Flammability Classification (0.800 mm)	HB	--		IEC 60695-11-10, -20
NOTE				
1.	10°C/min			

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