

Grilamid® LCL-3 H anthracite

Polyamide 12

EMS-GRIVORY

Message:

Grilamid® LCL-3 H anthracite is a Polyamide 12 (Nylon 12) 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 Grilamid® LCL-3 H 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	1.15	--	g/cm ³	ISO 1183

Molding Shrinkage - Across Flow	0.10	--	%	ISO 294-4
Water Absorption				ISO 62
Saturation, 23°C	1.1	--	%	
Equilibrium, 23°C, 50% RH	0.60	--	%	
Hardness	Dry	Conditioned	Unit	Test Method
Ball Indentation Hardness	--	135	MPa	ISO 2039-1
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	--	19000	MPa	ISO 527-2
Tensile Stress (Break)	--	250	MPa	ISO 527-2
Tensile Strain (Break)	--	1.7	%	ISO 527-2
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength (23°C)	--	28	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	--	70	kJ/m ²	ISO 179/1eU
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
1.8 MPa, Unannealed	170	--	°C	ISO 75-2/A
8.0 MPa, Unannealed	160	--	°C	ISO 75-2/C
Melting Temperature ¹	178	--	°C	ISO 11357-3
CLTE - Transverse	5.0E-5	--	cm/cm/°C	ISO 11359-2
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	--	50	ohms	IEC 60093
Volume Resistivity	--	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	PA12, MH, 14-190N, CF30	--		ISO 1874
NOTE				
1.	10°C/min			

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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China



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