

Grilamid® LC-3H black

Polyamide 12

EMS-GRIVORY

Message:

Grilamid® LC-3H black is a Polyamide 12 (Nylon 12) material filled with 30% carbon fiber. It is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America for injection molding.

Important attributes of Grilamid® LC-3H black are:

Flame Rated

RoHS Compliant

Antistatic

Good UV Resistance

Heat Stabilizer

Typical applications include:

Consumer Goods

Electrical/Electronic Applications

Engineering/Industrial Parts

Industrial Applications

Medical/Healthcare

General Information	
Filler / Reinforcement	Carbon Fiber,30% Filler by Weight
Additive	Antistatic
	Heat Stabilizer
Features	Antistatic
	Good UV Resistance
	Heat Stabilized
Uses	Consumer Applications
	Electrical/Electronic Applications
	Engineering Parts
	Industrial Applications
	Medical Devices
	Power/Other Tools
	Sporting Goods
RoHS Compliance	RoHS Compliant
Appearance	Black
Forms	Granules
Processing Method	Injection Molding
Multi-Point Data	Isothermal Stress vs. Strain (ISO 11403-1)
	Shear Modulus vs. Temperature (ISO 11403-1)
	Tensile Modulus vs. Temperature (ISO 11403-1)

Physical	Dry	Conditioned	Unit	Test Method
Density	1.15	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	0.30	--	%	
Flow	0.10	--	%	
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	--	130	MPa	ISO 2039-1
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	15000	13000	MPa	ISO 527-2
Tensile Stress (Break)	150	140	MPa	ISO 527-2
Tensile Strain (Break)	3.5	4.0	%	ISO 527-2
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	--	8.0	kJ/m ²	
23°C	--	13	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	--	60	kJ/m ²	
23°C	--	60	kJ/m ²	
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
1.8 MPa, Unannealed	165	--	°C	ISO 75-2/A
8.0 MPa, Unannealed	125	--	°C	ISO 75-2/C
Continuous Use Temperature				Internal Method
-- ¹	90.0 to 120	--	°C	
-- ²	150	--	°C	
Melting Temperature ³	178	--	°C	ISO 11357-3
CLTE				ISO 11359-2
Flow	1.0E-5	--	cm/cm/°C	
Transverse	1.3E-4	--	cm/cm/°C	
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, MHR, 18-120, CF30	--	ISO 1874
NOTE			
1.	Long Term		
2.	Short Term		
3.	10°C/min		

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