

Grilamid® LV-3 X ESD black

Polyamide 12

EMS-GRIVORY

Message:

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

Important attributes of Grilamid® LV-3 X ESD black are:

Flame Rated

RoHS Compliant

Antistatic

Good UV Resistance

Heat Resistant

Typical application of Grilamid® LV-3 X ESD black: Automotive

General Information				
Filler / Reinforcement		Glass Fiber,30% Filler by Weight		
Additive		Antistatic		
Features		Antistatic		
		Good Impact Resistance		
		Good UV Resistance		
		Hydrolysis Resistant		
		Medium Heat Resistance		
Uses		Automotive Applications		
RoHS Compliance		RoHS Compliant		
Appearance		Black		
Forms		Granules		
Processing Method		Injection Molding		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.29	--	g/cm³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	1.0	--	%	
Flow	0.20	--	%	
Water Absorption				ISO 62
Saturation, 23°C	1.0	--	%	
Equilibrium, 23°C, 50% RH	0.50	--	%	
Hardness	Dry	Conditioned	Unit	Test Method
Ball Indentation Hardness	--	125	MPa	ISO 2039-1
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	7500	7100	MPa	ISO 527-2
Tensile Stress (Break)	130	120	MPa	ISO 527-2
Tensile Strain (Break)	4.5	4.5	%	ISO 527-2

Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	9.0	9.0	kJ/m²	
23°C	11	11	kJ/m²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	--	45	kJ/m²	
23°C	75	60	kJ/m²	
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	8.0E-5	--	cm/cm/°C	
Transverse	1.2E-4	--	cm/cm/°C	
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	--	1.0E+3	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	PA 12, MHRZ, 18-080, GF30+C --			ISO 1874
NOTE				
1.	Long Term			
2.	Short Term			
3.	10°C/min			

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