

Grilamid® LV-23 ESD

Polyamide 12

EMS-GRIVORY

Message:

Grilamid® LV-23 ESD is a Polyamide 12 (Nylon 12) material filled with 23% 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-23 ESD are:

- Flame Rated
- RoHS Compliant
- Antistatic
- Good UV Resistance
- Heat Resistant

Typical application of Grilamid® LV-23 ESD: Automotive

General Information				
Filler / Reinforcement		Glass Fiber,23% Filler by Weight		
Additive		Antistatic		
Features		Antistatic		
		Good UV Resistance		
		Hydrolysis Resistant		
		Medium Heat Resistance		
Uses		Automotive Applications		
RoHS Compliance		RoHS Compliant		
Forms		Granules		
Processing Method		Injection Molding		
Multi-Point Data		Shear Modulus vs. Temperature (ISO 11403-1)		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.19	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	0.70	--	%	
Flow	0.10	--	%	
Water Absorption				ISO 62
Saturation, 23°C	1.0	--	%	
Equilibrium, 23°C, 50% RH	0.50	--	%	
Hardness	Dry	Conditioned	Unit	Test Method
Shore Hardness (Shore D, 15 sec)	--	75		ISO 868
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	5800	5000	MPa	ISO 527-2
Tensile Stress (Break)	110	95.0	MPa	ISO 527-2
Tensile Strain (Break)	3.0	5.0	%	ISO 527-2

Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	--	6.0	kJ/m ²	
23°C	--	8.0	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	--	40	kJ/m ²	
23°C	--	70	kJ/m ²	
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
1.8 MPa, Unannealed	150	--	°C	ISO 75-2/A
8.0 MPa, Unannealed	80.0	--	°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	2.0E-5	--	cm/cm/°C	
Transverse	1.5E-4	--	cm/cm/°C	
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	--	1.0E+4	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, MHRZ, 18-050 GF23+C	--		ISO 1874
NOTE				
1.	Long Term			
2.	Short Term			
3.	10°C/min			

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