Grilamid® LV-23 X ESD

Polyamide 12

EMS-GRIVORY

Message:

Grilamid® LV-23 X 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 X ESD are:
Flame Rated
Antistatic
Good UV Resistance
Heat Resistant
Impact Resistant
Typical applications include:
Automotive
Outdoor Applications

General Information	
Filler / Reinforcement	Glass Fiber,23% Filler by Weight
Additive	Antistatic
Features	Antistatic Good UV Resistance High Heat Resistance High Impact Resistance Hydrolysis Resistant
Uses	Automotive Applications Outdoor Applications
Forms	Granules
Processing Method	Injection Molding

Physical	Dry	Conditioned	Unit	Test Method
Density	1.23	--	g/cm³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	1.0	--	%	
Flow	0.30	--	%	
Water Absorption				ISO 62
Saturation, 23°C	1.2	--	%	
Equilibrium, 23°C, 50% RH	0.50	--	%	

Hardness	Dry	Conditioned	Unit	Test Method
Ball Indentation Hardness	--	115	MPa	ISO 2039-1

Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	--	5500	MPa	ISO 527-2
Tensile Stress (Break)	--	100	MPa	ISO 527-2

Tensile Strain (Break)	--	5.0	%	ISO 527-2
Impact	**Dry**	**Conditioned**	**Unit**	**Test Method**
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	--	8.0	kJ/m²	
23°C	--	10	kJ/m²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	--	35	kJ/m²	
23°C	--	55	kJ/m²	
Thermal	**Dry**	**Conditioned**	**Unit**	**Test Method**
Heat Deflection Temperature				
1.8 MPa, Unannealed	160	--	°C	ISO 75-2/A
8.0 MPa, Unannealed	110	--	°C	ISO 75-2/C
Maximum Use Temperature				Internal Method
Long Term	90 to 120	--	°C	
Short Term	150	--	°C	
ISO Type	PA12, MHRZ, 18-060, GF23+C	--		ISO 1874
Melting Temperature [1]	178	--	°C	ISO 11357-3
CLTE				ISO 11359-2
Flow	1.1E-4	--	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
NOTE				
1.	10°C/min			

Recommended distributors for this material

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