VESTAMID® L LX9102

Polyamide 12

Evonik Industries AG

Message:

Permanently antistatic and electrically conductive polyamide 12 compounds
Characterization: high viscosity, conductive, plasticized, with processing aid, increased cold impact strength
Application Examples: electrically conductive tubing
The properties of PA 12 compounds can be modified to suit the requirements of many applications by incorporating various additives such as stabilizers, plasticizers, reinforcements, and fillers.
The VESTAMID® L compounds of Evonik comprise a range of various products that are customized to the requirements of processors and users. Many of the PA 12 compounds are suitable especially for the injection molding of recision parts; others have been developed specifically for the extrusion process.

General Information	
Additive	Plasticizer
	Processing Aid
Features	Antistatic
	Electrically Conductive
	Fatigue Resistant
	Food Contact Acceptable
	Fuel Resistant
	Good Abrasion Resistance
	Good Impact Resistance
	Good Processability
	Grease Resistant
	High ESCR (Stress Crack Resist.)
	High Viscosity
	Low to No Water Absorption
	Oil Resistant
	Plasticized
	Solvent Resistant
	Sound Damping
	Vibration Damping
Uses	Tubing
Agency Ratings	EU 10/2011
Appearance	Black
Processing Method	Extrusion

Physical	Nominal Value	Unit	Test Method
Density (23°C)	1.12	g/cm³	ISO 1183
Molding Shrinkage			ISO 294-4
Across Flow	1.5	%	

Flow	1.4	%	
Water Absorption			ISO 62
Saturation, 23°C	1.5	%	
Equilibrium, 23°C, 50% RH	0.50	%	
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	640	MPa	ISO 527-2
Tensile Stress			ISO 527-2
Yield	32.0	MPa	
Break	39.0	MPa	
Tensile Strain			ISO 527-2
Yield	37	%	
Break	> 50	%	
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength			ISO 179/1eA
-30°C, Complete Break	5.0	kJ/m^2	
23°C, Partial Break	90	kJ/m^2	
Charpy Unnotched Impact Strength			ISO 179/1eU
-30°C	No Break		
23°C	No Break		
Thermal	**Nominal Value**	**Unit**	**Test Method**
Heat Deflection Temperature			
0.45 MPa, Unannealed	120	°C	ISO 75-2/B
1.8 MPa, Unannealed	55.0	°C	ISO 75-2/A
Vicat Softening Temperature			
--	169	°C	ISO 306/A
--	136	°C	ISO 306/B
Melting Temperature [1]	171	°C	ISO 11357-3
CLTE - Flow (23 to 55°C)	1.5E-4	cm/cm/°C	ISO 11359-2
Electrical	**Nominal Value**	**Unit**	**Test Method**
Volume Resistivity	1.0E+4	ohms·cm	IEC 60093
Insulation Resistance	1.0E+4	ohms	IEC 60167
Flammability	**Nominal Value**	**Unit**	**Test Method**
Flame Rating			UL 94
1.60 mm	HB		
3.20 mm	HB		
Additional Information	**Nominal Value**		**Test Method**
ISO Shortname	PA12-HIP, EHLZ, 22-005		ISO 1874
NOTE			
1.	2nd Heating		

Recommended distributors for this material

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