VESTAMID® L L2123

Polyamide 12

Evonik Industries AG

Message:

Plasticized polyamide 12 compounds
Characterization: high viscosity, plasticized, light- and heat-stabilized, with processing aid, increased cold impact strength
Application Examples: air brake line systems
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	Heat Stabilizer		
	Plasticizer		
	Processing Aid		
	UV Stabilizer		
Features	Fatigue Resistant		
	Food Contact Acceptable		
	Fuel Resistant		
	Good Abrasion Resistance		
	Good Impact Resistance		
	Good Processability		
	Grease Resistant		
	Heat Stabilized		
	High ESCR (Stress Crack Resist.)		
	High Viscosity		
	Light Stabilized		
	Low to No Water Absorption		
	Oil Resistant		
	Plasticized		
	Solvent Resistant		
	Sound Damping		
	Vibration Damping		
Agency Ratings	EU 10/2011		
Processing Method	Extrusion		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density (23°C)	1.03	g/cm³	ISO 1183
Molding Shrinkage			ISO 294-4
Across Flow	1.4	%	

Flow	0.65	%	
Water Absorption (Equilibrium, 23°C, 50% RH)	0.60	%	ISO 62
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	370	MPa	ISO 527-2
Tensile Stress (Yield)	24.0	MPa	ISO 527-2
Tensile Strain			ISO 527-2
Yield	32	%	
Break	> 50	%	
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength			ISO 179/1eA
-30°C, Complete Break	13	kJ/m^2	
23°C, Partial Break	120	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	80.0	°C	ISO 75-2/B
1.8 MPa, Unannealed	45.0	°C	ISO 75-2/A
Vicat Softening Temperature			
--	165	°C	ISO 306/A
--	120	°C	ISO 306/B
Melting Temperature [1]	171	°C	ISO 11357-3
CLTE - Flow (23 to 55°C)	1.8E-4	cm/cm/°C	ISO 11359-2
Electrical	**Nominal Value**	**Unit**	**Test Method**
Volume Resistivity	1.0E+12	ohms·cm	IEC 60093
Electric Strength	29	kV/mm	IEC 60243-1
Relative Permittivity			IEC 60250
23°C, 100 Hz	10.0		
23°C, 1 MHz	3.60		
Dissipation Factor			IEC 60250
23°C, 100 Hz	0.20		
23°C, 1 MHz	0.11		
Comparative Tracking Index			IEC 60112
--	600	V	
Solution A [2]	> 600	V	
Flammability	**Nominal Value**	**Unit**	**Test Method**
Flame Rating			UL 94
1.60 mm	HB		
3.20 mm	HB		
Additional Information	**Nominal Value**		**Test Method**

Electrolytical Corrosion	A1	IEC 60426
ISO Shortname	PA12-P, EHL, 22-004	ISO 1874

NOTE	
1.	2nd Heating
2.	50 drops value

Recommended distributors for this material

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