

VESTAMID® L L2140

Polyamide 12
Evonik Industries AG

Message:

Unfilled polyamid 12 compounds
Characterization: high viscosity, heat and light stabilized, with processing aid
Application Examples: fuel lines, sheathing for steel cables, semi-finished articles, tubing for car window lifts
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.
VESTAMID® L2140B for use in food contact upon request

General Information	
UL YellowCard	E100211-217737
Additive	Heat Stabilizer
	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
	Solvent Resistant
	Sound Damping
	Vibration Damping
Uses	Automotive Applications
	Cable Jacketing
	Fuel Lines
	Tubing
Agency Ratings	EU 10/2011

Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Density (23°C)	1.01	g/cm ³	ISO 1183
Molding Shrinkage			ISO 294-4
Across Flow	1.3	%	
Flow	0.65	%	
Water Absorption			ISO 62
Saturation, 23°C	1.6	%	
Equilibrium, 23°C, 50% RH	0.70	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1400	MPa	ISO 527-2
Tensile Stress (Yield)	47.0	MPa	ISO 527-2
Tensile Strain			ISO 527-2
Yield	5.0	%	
Break	> 50	%	
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C, Complete Break	9.0	kJ/m ²	
23°C, Complete Break	16	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	110	°C	ISO 75-2/B
1.8 MPa, Unannealed	50.0	°C	ISO 75-2/A
Vicat Softening Temperature			
--	170	°C	ISO 306/A
--	140	°C	ISO 306/B
Melting Temperature ¹	178	°C	ISO 11357-3
CLTE - Flow (23 to 55°C)	1.4E-4	cm/cm/°C	ISO 11359-2
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+15	ohms · cm	IEC 60093
Electric Strength	26	kV/mm	IEC 60243-1
Relative Permittivity			IEC 60250
23°C, 100 Hz	3.70		
23°C, 1 MHz	3.00		
Dissipation Factor			IEC 60250
23°C, 100 Hz	0.045		
23°C, 1 MHz	0.026		
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, EHL, 22-010		ISO 1874
NOTE			
1.	2nd Heating		
2.	50 drops value		

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

