

VESTAMID® L L2106F

Polyamide 12
Evonik Industries AG

Message:

Unfilled polyamid 12 compounds
Characterization: high viscos, improved transparency, modified by comonomers
Application Examples: flexible tubular films for sausage casings
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			
Features	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		
	Solvent Resistant		
	Sound Damping		
	Vibration Damping		
Uses	Film		
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	1.2	%	
Flow	0.70	%	
Water Absorption			ISO 62
Saturation, 23°C	1.8	%	
Equilibrium, 23°C, 50% RH	0.80	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1300	MPa	ISO 527-2
Tensile Stress (Yield)	45.0	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	7.0	kJ/m ²	
23°C, Complete Break	7.0	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	40.0	°C	ISO 75-2/A
Vicat Softening Temperature			
--	170	°C	ISO 306/A
--	130	°C	ISO 306/B
Melting Temperature ¹	175	°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+15	ohms·cm	IEC 60093
Electric Strength	27	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	0.028		
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
NOTE			
1.	2nd Heating		
2.	50 drops value		

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