VESTAMID® L L1670

Polyamide 12

Evonik Industries AG

Message:

Unfilled polyamid 12 compounds
Characterization: low viscosity, heat and light stabilized, with processing aid
Application Examples: wire insulation, coils, secondary coating of optical fibers
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
	Processing Aid
	UV Stabilizer
Features	Fatigue Resistant
	Fuel Resistant
	Good Abrasion Resistance
	Good Impact Resistance
	Good Processability
	Grease Resistant
	Heat Stabilized
	High ESCR (Stress Crack Resist.)
	Light Stabilized
	Low to No Water Absorption
	Low Viscosity
	Oil Resistant
	Solvent Resistant
	Sound Damping
	Vibration Damping
Uses	Coating Applications
	Insulation
	Wire & Cable Applications
Agency Ratings	EU 10/2011
Processing Method	Extrusion
	Injection Molding

Physical	Nominal Value	Unit	Test Method

Density (23°C)	1.01	g/cm³	ISO 1183
Molding Shrinkage			ISO 294-4
Across Flow	1.1	%	
Flow	0.90	%	
Water Absorption			ISO 62
Saturation, 23°C	1.4	%	
Equilibrium, 23°C, 50% RH	0.70	%	
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	1400	MPa	ISO 527-2
Tensile Stress (Yield)	46.0	MPa	ISO 527-2
Tensile Strain			ISO 527-2
Yield	6.0	%	
Break	> 50	%	
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength			ISO 179/1eA
-30°C, Complete Break	5.0	kJ/m²	
23°C, Complete Break	4.0	kJ/m²	
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	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)	1.5E-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	3.80		
23°C, 1 MHz	2.20		
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
ISO Shortname	PA12, KHL, 12-010	ISO 1874
NOTE		
1.	2nd Heating	
2.	50 drops value	

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