VESTAMID® L L1930

Polyamide 12

Evonik Industries AG

Message:

Reinforced, filled and flame retardant polyamide 12 compounds
Characterization: 30% milled glass fibers, medium viscosity, heat stabilized, with processing aid
Application Examples: Gear wheels, castors, pump parts, sliding bearings, fittings
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	
UL YellowCard	E100211-217735
Filler / Reinforcement	Milled Glass Fiber,30% Filler by Weight
Additive	Heat Stabilizer Processing Aid
Features	Fatigue Resistant Flame Retardant Food Contact Acceptable Fuel Resistant Good Abrasion Resistance Good Impact Resistance Good Processability Grease Resistant Heat Stabilized High ESCR (Stress Crack Resist.) Low to No Water Absorption Medium Viscosity Oil Resistant Solvent Resistant Sound Damping Vibration Damping
Uses	Bearings Fittings Gears Pump Parts
Agency Ratings	EU 10/2011
Processing Method	Injection Molding

Physical	Nominal Value	Unit	Test Method
Density (23°C)	1.24	g/cm³	ISO 1183
Molding Shrinkage			ISO 294-4
Across Flow	0.60	%	
Flow	0.70	%	
Water Absorption			ISO 62
Saturation, 23°C	1.1	%	
Equilibrium, 23°C, 50% RH	0.50	%	
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	4000	MPa	ISO 527-2
Tensile Stress			ISO 527-2
Yield	69.0	MPa	
Break	60.0	MPa	
Tensile Strain			ISO 527-2
Yield	4.0	%	
Break	10	%	
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength			ISO 179/1eA
-30°C, Complete Break	11	kJ/m²	
23°C, Complete Break	10	kJ/m²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-30°C, Complete Break	65	kJ/m²	
23°C, Complete Break	70	kJ/m²	
Thermal	**Nominal Value**	**Unit**	**Test Method**
Heat Deflection Temperature			
0.45 MPa, Unannealed	170	°C	ISO 75-2/B
1.8 MPa, Unannealed	130	°C	ISO 75-2/A
Vicat Softening Temperature			
--	175	°C	ISO 306/A
--	170	°C	ISO 306/B
Melting Temperature [1]	178	°C	ISO 11357-3
CLTE - Flow (23 to 55°C)	5.0E-5	cm/cm/°C	ISO 11359-2
Electrical	**Nominal Value**	**Unit**	**Test Method**
Volume Resistivity	1.0E+15	ohms·cm	IEC 60093
Electric Strength	40	kV/mm	IEC 60243-1
Relative Permittivity			IEC 60250
23°C, 100 Hz	4.10		
23°C, 1 MHz	3.40		
Dissipation Factor			IEC 60250
23°C, 100 Hz	0.031		
23°C, 1 MHz	0.024		
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
ISO Shortname	PA12, MHR, 18-040, GD30		ISO 1874
NOTE			
1.	2nd Heating		
2.	50 drops value		

Recommended distributors for this material

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