VESTAMID® L L-GB30

Polyamide 12

Evonik Industries AG

Message:

Reinforced, filled and flame retardant polyamide 12 compounds
Characterization: 30% glass microbeads, medium viscosity, heat stabilized, with processing aid
Application Examples: precision-molded parts with isotropic shrinkage, e.g., housings for gears, control valves and mechanical counters, pump impellers
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	E100211-217738
Filler / Reinforcement	Glass Bead,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	Housings Pump Parts Valves/Valve Parts
Agency Ratings	EU 10/2011
Processing Method	Injection Molding

Physical	Nominal Value	Unit	Test Method

Density (23°C)	1.25	g/cm³	ISO 1183
Molding Shrinkage			ISO 294-4
Across Flow	1.2	%	
Flow	1.2	%	
Water Absorption			ISO 62
Saturation, 23°C	1.1	%	
Equilibrium, 23°C, 50% RH	0.50	%	
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	2000	MPa	ISO 527-2
Tensile Stress			ISO 527-2
Yield	47.0	MPa	
Break	38.0	MPa	
Tensile Strain			ISO 527-2
Yield	5.0	%	
Break	37	%	
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength			ISO 179/1eA
-30°C, Complete Break	6.0	kJ/m²	
23°C, Complete Break	6.0	kJ/m²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-30°C, Complete Break	160	kJ/m²	
23°C, Complete Break	160	kJ/m²	
Thermal	**Nominal Value**	**Unit**	**Test Method**
Heat Deflection Temperature			
0.45 MPa, Unannealed	150	°C	ISO 75-2/B
1.8 MPa, Unannealed	55.0	°C	ISO 75-2/A
Vicat Softening Temperature			
--	175	°C	ISO 306/A
--	155	°C	ISO 306/B
Melting Temperature [1]	178	°C	ISO 11357-3
CLTE - Flow (23 to 55°C)	1.3E-4	cm/cm/°C	ISO 11359-2
Electrical	**Nominal Value**	**Unit**	**Test Method**
Volume Resistivity	1.0E+15	ohms·cm	IEC 60093
Electric Strength	31	kV/mm	IEC 60243-1
Relative Permittivity			IEC 60250
23°C, 100 Hz	4.10		
23°C, 1 MHz	3.50		
Dissipation Factor			IEC 60250
23°C, 100 Hz	0.031		
23°C, 1 MHz	0.023		
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, MHR, 16-020, GB30		ISO 1874
NOTE			
1.	2nd Heating		
2.	50 drops value		

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