VESTAMID® L X7229

Polyamide 12

Evonik Industries AG

Message:

Reinforced, filled and flame retardant polyamide 12 compounds
Characterization: high viscosity, plasticized, with flame retardant, halogen- and phosphorus-free, UL94-V2, meets FAR 25.853b
Application Examples: profiles and tubing
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	Flame Retardant
	Plasticizer
Features	Fatigue Resistant
	Flame Retardant
	Food Contact Acceptable
	Fuel Resistant
	Good Abrasion Resistance
	Good Impact Resistance
	Good Processability
	Grease Resistant
	Halogen Free
	High ESCR (Stress Crack Resist.)
	High Viscosity
	Low (to None) Phosphorus Content
	Low to No Water Absorption
	Oil Resistant
	Plasticized
	Solvent Resistant
	Sound Damping
	Vibration Damping
Uses	Profiles
	Tubing
Agency Ratings	EU 10/2011
	FAA FAR 25.853
Processing Method	Extrusion

Physical	Nominal Value	Unit	Test Method
Density (23°C)	1.06	g/cm³	ISO 1183
Molding Shrinkage			ISO 294-4
Across Flow	0.80	%	
Flow	0.55	%	
Water Absorption			ISO 62
Saturation, 23°C	1.5	%	
Equilibrium, 23°C, 50% RH	0.60	%	
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	1000	MPa	ISO 527-2
Tensile Stress (Yield)	36.0	MPa	ISO 527-2
Tensile Strain			ISO 527-2
Yield	17	%	
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	11	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	130	°C	ISO 75-2/B
1.8 MPa, Unannealed	40.0	°C	ISO 75-2/A
Vicat Softening Temperature			
--	170	°C	ISO 306/A
--	150	°C	ISO 306/B
Melting Temperature [1]	175	°C	ISO 11357-3
CLTE - Flow (23 to 55°C)	8.0E-5	cm/cm/°C	ISO 11359-2
Electrical	**Nominal Value**	**Unit**	**Test Method**
Volume Resistivity	1.0E+13	ohms·cm	IEC 60093
Electric Strength	27	kV/mm	IEC 60243-1
Relative Permittivity (23°C, 1 MHz)	5.00		IEC 60250
Dissipation Factor (23°C, 1 MHz)	0.17		IEC 60250
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	V-2		
3.20 mm	V-2		

Additional Information	Nominal Value	Test Method
ISO Shortname	PA12-P, EFH, 22-010	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