VESTAMID® L L-R3-EI

Polyamide 12

Evonik Industries AG

Message:

Permanently antistatic and electrically conductive polyamide 12 compounds
Characterization: high viscosity, heat- and light-stabilized, increased cold impact strength, with processing aid
Application Examples: antistatic and electrically conductive moldings or extrudates for use in areas prone to explosion such as coal mining and other industries, e.g., housings for explosion-protected measurement equipment and switches, ventilation fans for electric motors, chair castors, loud speaker boxes, telephone and radio equipment, profiles for assembly lines, also with electric shock protection
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	Antistatic
	Electrically Conductive
	Fatigue Resistant
	Food Contact Acceptable
	Fuel Resistant
	Good Abrasion Resistance
	Good Impact Resistance
	Good Processability
	Grease Resistant
	Heat Stabilized
	High ESCR (Stress Crack Resist.)
	High Viscosity
	Light Stabilized
	Low to No Water Absorption
	Oil Resistant
	Solvent Resistant
	Sound Damping
	Vibration Damping
Uses	Electrical/Electronic Applications
	Housings
	Mining Applications
	Profiles

Agency Ratings	EU 10/2011		
Appearance	Black		
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	1.6	%	
Flow	1.6	%	
Water Absorption			ISO 62
Saturation, 23°C	1.2	%	
Equilibrium, 23°C, 50% RH	0.50	%	
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	1500	MPa	ISO 527-2
Tensile Stress			ISO 527-2
Yield	42.0	MPa	
Break	36.0	MPa	
Tensile Strain			ISO 527-2
Yield	9.0	%	
Break	44	%	
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength			ISO 179/1eA
-30°C, Complete Break	9.0	kJ/m²	
23°C, Complete Break	21	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	60.0	°C	ISO 75-2/A
Vicat Softening Temperature			
--	175	°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+3	ohms·cm	IEC 60093
Insulation Resistance	1.0E+3	ohms	IEC 60167
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-HI, EHZ, 22-010	ISO 1874
NOTE		
1.	2nd Heating	

Recommended distributors for this material

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