LUVOCOM® 6-8618

Polyamide 12

Lehmann & Voss & Co.

Message:

LUVOCOM®6-8618 is a polyamide 12 (nylon 12) material. This product is available in North America, Africa and the Middle East, Latin America, Europe or Asia Pacific.
LUVOCOM®The main features of 6-8618 are:
Conductivity
Electrostatic protection
moisture resistance
Typical application areas include:
textile/fiber
engineering/industrial accessories
Automotive Industry
business/office supplies

General Information			
Features	Conductivity Heat conduction Electrostatic discharge protection Low or no water absorption		
Uses	Textile applications Engineering accessories Application in Automobile Field Business equipment		
Appearance	Grey		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	1.15	g/cm^3	ISO 1183
Molding Shrinkage	0.50 - 0.90	%	DIN 16901
Water Absorption (23°C, 24 hr)	< 0.10	%	
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	4500	MPa	ISO 527-2
Tensile Stress (Break)	75.0	MPa	ISO 527-2
Tensile Strain (Yield)	4.7	%	ISO 527-2
Flexural Modulus	4000	MPa	ISO 178
Flexural Stress	95.0	MPa	ISO 178
Flexural Strain at Flexural Strength	5.5	%	ISO 178
Maximum operating temperature-Short Term	140	°C	
Insulation Resistance		ohms	IEC 60167
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Unnotched Impact Strength (23°C)	25	kJ/m^2	ISO 179/1eU

Thermal	Nominal Value	Unit	Test Method
Continuous Use Temperature	90.0	°C	UL 746B
Thermal Conductivity [1]	9.5	W/m/K	
Electrical	**Nominal Value**	**Unit**	**Test Method**
Surface Resistivity	< 1.0E+7	ohms	IEC 60093
Injection	**Nominal Value**	**Unit**	
Drying Temperature			
A	75.0	°C	
B	105	°C	
Drying time-A	6.0 - 10	hr	
Suggested Max Moisture	0.10	%	
Rear Temperature	230 - 250	°C	
Middle Temperature	240 - 260	°C	
Front Temperature	250 - 270	°C	
Nozzle Temperature	250 - 260	°C	
Processing (Melt) Temp	250	°C	
Mold Temperature	70.0 - 110	°C	

Injection instructions

General
In general LUVOCOM® can be processed on conventional injection moulding machines while observing the usual technical guidelines.
Any added fibrous materials or fillers may have an abrasive effect. In this case the cylinder and screw should be protected against wear as is usual in the processing of reinforced thermoplastic materials.
Lengthy dwell times for the melts in the cylinder should be avoided.
Lower the temperatures during interruptions!
Predrying (optional)
It is advisable to predry the granulate with a suitable dryer immediately before processing.
The granulate may absorb moisture from the air.
Delivery Form & Storage
Unless indicated otherwise, the material is delivered as 3mm-long pellets in sealed bags on pallets.
Preferably storage should be effected in dry and normally temperatured rooms
Additional Information
During processing the moisture level should not exceed 0.1%, otherwise molecular degradation and surface defects (e.g. smearing) may occur. As the material absorbs water rapidly, originally sealed containers should only be opened immediately before processing. Excessively high predrying temperatures may cause discoloration.
The processing notes provided merely represent a recommendation for general use. Due to the large variety of machines, geometries and volumes of parts, etc., it may be necessary to employ different settings according to the specific application.
Please contact us for further information.

NOTE

1. Hot-Disk, 60x60x3 mm

Recommended distributors for this material

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