LUVOCOM® 19-8073 VP

Polyamide 46

Lehmann & Voss & Co.

Message:

LUVOCOM®19-8073 VP is a polyamide 46 (nylon 46) material containing aramid fibers. This product is available in North America, Africa and the Middle East, Latin America, Europe or Asia Pacific. LUVOCOM®The main characteristics of 19-8073 VP are: lubrication.
Typical application areas include:
engineering/industrial accessories
Electrical/electronic applications
textile/fiber
Automotive Industry
business/office supplies

General Information	
Filler / Reinforcement	Aramid fiber
Additive	PTFE lubricant
Features	Lubrication
Uses	Gear
	Textile applications
	Engineering accessories
	Switch
	Application in Automobile Field
	Business equipment
	Bearing
Appearance	Natural color

Physical	Nominal Value	Unit	Test Method
Density	1.26	g/cm^3	ISO 1183
Molding Shrinkage	1.1 - 1.8	%	DIN 16901
Water Absorption (23°C, 24 hr)	< 1.0	%	

Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	3500	MPa	ISO 527-2
Tensile Stress (Break)	85.0	MPa	ISO 527-2
Tensile Strain (Yield)	6.0	%	ISO 527-2
Flexural Modulus	3000	MPa	ISO 178
Flexural Stress	120	MPa	ISO 178
Flexural Strain at Flexural Strength	8.5	%	ISO 178
Maximum operating temperature-Short Term	160	°C	
Insulation Resistance	> 1.0E+12	ohms	IEC 60167

Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	4.0	kJ/m^2	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	38	kJ/m^2	ISO 179/1eU

Thermal	Nominal Value	Unit	Test Method
Continuous Use Temperature	150	°C	UL 746B

Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	> 1.0E+12	ohms	IEC 60093

Injection	Nominal Value	Unit
Drying Temperature		
A	80.0	°C
Vacuum dryer, B	80.0	°C
Drying Time		
A	2.0 - 8.0	hr
Vacuum dryer, B	2.0 - 12	hr
Suggested Max Moisture	0.10	%
Rear Temperature	285 - 315	°C
Middle Temperature	305 - 315	°C
Front Temperature	305 - 315	°C
Nozzle Temperature	280 - 330	°C
Processing (Melt) Temp	310	°C
Mold Temperature	120 - 140	°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 very 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.