LUVOCOM® 19-8094 VP

Polyamide 46

Lehmann & Voss & Co.

Message:

LUVOCOM®19-8094 VP is a polyamide 46 (nylon 46) material containing a carbon fiber reinforced material. This product is available in North America, Africa and the Middle East, Latin America, Europe or Asia Pacific.
LUVOCOM®The main features of 19-8094 VP are:
Conductivity
Electrostatic protection
Good stiffness
Lubrication
Typical application areas include:
engineering/industrial accessories
textile/fiber
Automotive Industry
business/office supplies

General Information			
Filler / Reinforcement	Carbon fiber reinforced material		
Additive	PTFE lubricant		
Features	Conductivity Rigid, good Electrostatic discharge protection Good strength Lubrication		
Uses	Gear Textile applications Engineering accessories Application in Automobile Field Business equipment Cam		
Appearance	Natural color		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	1.34	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (300°C/2.16 kg)	12	g/10 min	ISO 1133
Melt Volume-Flow Rate (MVR) (300°C/2.16 kg)	13.0	cm³/10min	ISO 1133
Molding Shrinkage	0.30 - 0.60	%	DIN 16901
Water Absorption (23°C, 24 hr)	< 1.0	%	
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	11000	MPa	ISO 527-2

Tensile Stress (Break)	165	MPa	ISO 527-2
Tensile Strain (Yield)	2.2	%	ISO 527-2
Flexural Modulus	9000	MPa	ISO 178
Flexural Stress	235	MPa	ISO 178
Flexural Strain at Flexural Strength	2.6	%	ISO 178
Maximum operating temperature-Short Term	160	°C	
Insulation Resistance		ohms	IEC 60167
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength (23°C)	5.0	kJ/m^2	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	40	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+6	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.

Recommended distributors for this material

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