

LUVOCOM® 20-7868 VP

Polyphthalamide

Lehmann & Voss & Co.

Message:

LUVOCOM® 20-7868 VP is a polyxylene amide (PPA) material, which contains glass and carbon fiber reinforced materials. This product is available in North America, Africa and the Middle East, Latin America, Europe or Asia Pacific.

LUVOCOM® The main features of 20-7868 VP are:

Conductivity

High stiffness

high strength

Electrostatic protection

Typical application areas include:

engineering/industrial accessories

Electrical/electronic applications

textile/fiber

Automotive Industry

business/office supplies

General Information			
Filler / Reinforcement	Glass, carbon fiber reinforced materials		
Features	Conductivity		
	Rigidity, high		
	High strength		
	Electrostatic discharge protection		
Uses	Gear		
	Textile applications		
	Engineering accessories		
	Switch		
	Application in Automobile Field		
	Business equipment		
	Bearing		
Appearance	Natural color		
Physical	Nominal Value	Unit	Test Method
Density	1.39	g/cm ³	ISO 1183
Molding Shrinkage	0.050 - 0.30	%	DIN 16901
Water Absorption (23°C, 24 hr)	< 0.30	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	28000	MPa	ISO 527-2
Tensile Stress (Break)	300	MPa	ISO 527-2
Tensile Strain (Yield)	1.5	%	ISO 527-2
Flexural Modulus	25000	MPa	ISO 178
Flexural Stress	435	MPa	ISO 178

Coefficient of Friction			
Dynamic	0.28		
Static	0.20		
Flexural Strain at Flexural Strength	2.0	%	ISO 178
Maximum operating temperature-Short Term	195	°C	
Insulation Resistance		ohms	IEC 60167
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	8.0	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	60	kJ/m ²	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	250	°C	ISO 75-2/A
Continuous Use Temperature	165	°C	UL 746B
Vicat Softening Temperature	285	°C	ISO 306/A
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	< 1.0E+3	ohms	IEC 60093
Injection	Nominal Value	Unit	
Drying Temperature			
A	80.0	°C	
Vacuum dryer, B	105	°C	
Drying Time			
A	16	hr	
Vacuum dryer, B	4.0 - 5.0	hr	
Suggested Max Moisture	0.050	%	
Rear Temperature	320 - 340	°C	
Middle Temperature	320 - 345	°C	
Front Temperature	325 - 350	°C	
Nozzle Temperature	320 - 330	°C	
Processing (Melt) Temp	330	°C	
Mold Temperature	135 - 160	°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 0.05%, 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. Processing temperatures above 340°C may very rapidly cause thermal damage and should therefore be avoided.

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.

High-temperature polymers place increased demands on the tool steels employed.

Please contact us for further information.

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