LUVOCOM® 50-7897 VP

Polycarbonate

Lehmann & Voss & Co.

Message:

LUVOCOM® 50-7897 VP is a polycarbonate (PC) material. This product is available in North America, Africa and the Middle East, Latin America, Europe or Asia Pacific.

LUVOCOM®The main features of 50-7897 VP are:

Good dimensional stability

Impact resistance

Wear-resistant

Lubrication

Typical application areas include:

engineering/industrial accessories

Electrical/electronic applications

Reflector

business/office supplies

Sporting goods

Features Good dimensional stability Low friction coefficient Impact resistance, good Good wear resistance Lubrication Uses Gear Reflector Engineering accessories Switch Business equipment Sporting goods Medical/nursing supplies Appearance White Physical Nominal Value Unit Test Method Density 1.30 g/cm³ ISO 1183 Melt Volume-Flow Rate (MVR) (300°C/1.2 kg) Molding Shrinkage 0.60 - 0.80 Molding Shrinkage 0.60 - 0.80 Method Water Absorption (23°C, 24 hr) <0.20 Mechanical Nominal Value Unit Test Method Tensile Modulus Unit Test Method Test Method Tensile Modulus Test Method Tensile Modulus Test Method	General Information						
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Tensile Modulus 2200 MPa ISO 527-2	Water Absorption (23°C, 24 hr)	< 0.20	%				
	Mechanical	Nominal Value	Unit	Test Method			
Tensile Stress (Break) 50.0 MPa ISO 527-2	Tensile Modulus	2200	МРа	ISO 527-2			
	Tensile Stress (Break)	50.0	MPa	ISO 527-2			

Tensile Strain (Yield)	5.0	%	ISO 527-2
Flexural Modulus	1800	MPa	ISO 178
Flexural Stress	80.0	MPa	ISO 178
Coefficient of Friction			
Dynamic	0.15		
Static	0.10		
Flexural Strain at Flexural Strength	6.0	%	ISO 178
Maximum operating temperature-Short Term	150	°C	
Insulation Resistance	> 1.0E+12	ohms	IEC 60167
Impact	Nominal Value	Unit	Test Method
Charpy Unnotched Impact Strength (23°C)	90	kJ/m²	ISO 179/1fU
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	125	°C	ISO 75-2/A
Continuous Use Temperature	130	°C	UL 746B
Vicat Softening Temperature	160	°C	ISO 306/A
CLTE - Flow	7.0E-5	cm/cm/°C	DIN 53752
Thermal Conductivity	0.20	W/m/K	DIN 52612
Injection	Nominal Value	Unit	
Drying Temperature	120	°C	
Drying Time	4.0 - 6.0	hr	
Suggested Max Moisture	0.020	%	
Rear Temperature	280 - 300	°C	
Middle Temperature	290 - 310	°C	
Front Temperature	300 - 320	°C	
Nozzle Temperature	290 - 310	°C	
Processing (Melt) Temp	295	°C	
Mold Temperature	80.0 - 120	°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 0.02%, otherwise molecular degradation may occur.

Suitable heat treatment may increase resistance to the formation of stress cracks.

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.

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