

LUVOCOM® 100-8758

Polyurethane

Lehmann & Voss & Co.

Message:

LUVOCOM® 100-8758 is a thermoplastic polyurethane elastomer material. This product is available in North America, Africa and the Middle East, Latin America, Europe or Asia Pacific. LUVOCOM® The main characteristics of 100-8758 are: wear resistance.

Typical application areas include:

engineering/industrial accessories

Tools

food contact applications

General Information			
Features	Good wear resistance		
Uses	Non-specific food applications		
	Engineering accessories		
	Machine/mechanical parts		
	Mold/Mold/Tool		
Appearance	Blue		
Physical	Nominal Value	Unit	Test Method
Density	2.40	g/cm ³	ISO 1183
Molding Shrinkage	0.90 - 1.7	%	DIN 16901
Water Absorption (23°C, 24 hr)	< 0.30	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	100	MPa	ISO 527-2
Tensile Stress (Break)	10.0	MPa	ISO 527-2
Tensile Strain (Yield)	260	%	ISO 527-2
Impact	Nominal Value	Unit	Test Method
Charpy Unnotched Impact Strength (23°C)	No Break		ISO 179/1fU
Thermal	Nominal Value	Unit	Test Method
Continuous Use Temperature	90.0	°C	UL 746B
Maximum operating temperature-Short Term	110	°C	
Insulation Resistance	> 1.0E+11	ohms	IEC 60167
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	> 1.0E+11	ohms	IEC 60093
Injection	Nominal Value	Unit	
Drying Temperature			
Dehumidification desiccant, B	100 - 110	°C	
Hot air dryer, A	60.0 - 90.0	°C	
Drying Time			
Dehumidification desiccant, B	2.0 - 3.0	hr	

Hot air dryer, A	2.0 - 3.0	hr
Suggested Max Moisture	0.010	%
Rear Temperature	190 - 230	°C
Middle Temperature	190 - 230	°C
Front Temperature	190 - 230	°C
Nozzle Temperature	200 - 240	°C
Processing (Melt) Temp	225	°C
Mold Temperature	25.0 - 60.0	°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 0.01%, otherwise molecular degradation may occur. As the material absorbs water very rapidly, originally sealed containers should only be opened immediately before processing.

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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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China



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