

# LUVOCOM® 1500-8299

Polysulfone

Lehmann & Voss & Co.

## Message:

LUVOCOM® 1500-8299 is a polysulfone (PSU) material. This product is available in North America, Africa and the Middle East, Latin America, Europe or Asia Pacific.

LUVOCOM® The main features of 1500-8299 are:

Flame Retardant

Good dimensional stability

chemical resistance

Heat resistance

Lubrication

LUVOCOM® Typical application areas of 1500-8299 are: engineering/industrial accessories

General Information			
Additive	PTFE lubricant		
Features	Good dimensional stability		
	Good chemical resistance		
	Heat resistance, high		
	Lubrication		
	Hydrolysis stability		
	Flame retardancy		
Uses	Cam		
Appearance	Natural color		
Physical	Nominal Value	Unit	Test Method
Density	1.31	g/cm³	ISO 1183
Molding Shrinkage	0.60 - 1.2	%	DIN 16901
Water Absorption (23°C, 24 hr)	< 0.30	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2100	MPa	ISO 527-2
Tensile Stress (Break)	56.0	MPa	ISO 527-2
Tensile Strain (Yield)	5.0	%	ISO 527-2
Flexural Modulus	2000	MPa	ISO 178
Flexural Stress	80.0	MPa	ISO 178
Flexural Strain at Flexural Strength	6.7	%	ISO 178
Maximum operating temperature-Short Term	170	°C	
Insulation Resistance	> 1.0E+12	ohms	IEC 60167
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	175	°C	ISO 75-2/A
Continuous Use Temperature	150	°C	UL 746B

CLTE - Flow	5.5E-5	cm/cm/°C	DIN 53752
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	> 1.0E+12	ohms	IEC 60093
Injection	Nominal Value	Unit	
Drying Temperature - Desiccant Dryer	140	°C	
Drying Time - Desiccant Dryer	3.0 - 4.0	hr	
Suggested Max Moisture	0.050	%	
Rear Temperature	340 - 360	°C	
Middle Temperature	345 - 365	°C	
Front Temperature	350 - 370	°C	
Nozzle Temperature	350 - 370	°C	
Processing (Melt) Temp	355	°C	
Mold Temperature	140 - 170	°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 porosity and surface defects (e.g. smearing) may occur. To avoid internal stresses, a low shear load should be used for processing. The parts may be tempered at a later stage to reduce internal stresses.

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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#### Recommended distributors for this material

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