

# LUVOCOM® 1115-8559

Polyetherketoneketone

Lehmann & Voss & Co.

## Message:

LUVOCOM®1115-8559 is a polyetherketone ketone (PEKK) material, and the filler is 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 1115-8559 are:

Flame Retardant

Good stiffness

chemical resistance

Wear-resistant

Lubrication

LUVOCOM®The typical application fields of 1115-8559 are: engineering/industrial accessories

General Information			
Filler / Reinforcement	Carbon fiber reinforced material		
Additive	Lubricant		
Features	Low friction coefficient		
	Rigid, good		
	Good strength		
	Good chemical resistance		
	Good wear resistance		
	Lubrication		
	Hydrolysis stability		
	Self-lubricating		
	Flame retardancy		
Uses	Pump parts		
	Bushing		
	Gear		
	Bearing		
Appearance	Grey		
Physical	Nominal Value	Unit	Test Method
Density	1.51	g/cm <sup>3</sup>	ISO 1183
Molding Shrinkage	0.30 - 0.60	%	DIN 16901
Water Absorption (23°C, 24 hr)	< 0.10	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	14000	MPa	ISO 527-2
Tensile Stress (Break)	165	MPa	ISO 527-2
Tensile Strain (Yield)	1.5	%	ISO 527-2
Flexural Modulus	11000	MPa	ISO 178
Flexural Stress	225	MPa	ISO 178

Flexural Strain at Flexural Strength	2.0	%	ISO 178
Maximum operating temperature-Short Term	300	°C	
Insulation Resistance		ohms	IEC 60167
Impact	Nominal Value	Unit	Test Method
Charpy Unnotched Impact Strength (23°C)	30	kJ/m <sup>2</sup>	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Continuous Use Temperature	260	°C	UL 746B
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	< 1.0E+8	ohms	IEC 60093
Injection	Nominal Value	Unit	
Drying Temperature			
Hot air dryer, A	140	°C	
Hot air dryer, B	150	°C	
Drying Time			
Hot air dryer, A	4.0 - 6.0	hr	
Hot air dryer, B	4.0 - 8.0	hr	
Suggested Max Moisture	0.050	%	
Rear Temperature	370 - 390	°C	
Middle Temperature	380 - 420	°C	
Front Temperature	390 - 420	°C	
Nozzle Temperature	390 - 420	°C	
Processing (Melt) Temp	390	°C	
Mold Temperature	180 - 220	°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 content should not exceed 0.05%. To avoid internal stresses, a medium to high injection rate should be used. An increase in tool temperature may be helpful. Post-crystallization may lead to warpage at elevated operating temperatures. This can be counteracted by suitable heat treatment.

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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