

LUVOCOM® 70-9172/BL

Polyketone

LEHVOSS Group

Message:

LUVOCOM®70-9172/BL is a Polyketone (PK) material, and the filler is glass 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 70-9172/BL are:

Good stiffness

moisture resistance

chemical resistance

Hydrolytic stability

Typical application areas include:

engineering/industrial accessories

Handle

General Information			
Filler / Reinforcement	Glass fiber reinforced material		
Features	Rigid, good		
	Good liquidity		
	Good strength		
	Good chemical resistance		
	Hydrolysis stability		
	Low or no water absorption		
Uses	Handle		
	Roller		
Appearance	Blue		
Physical	Nominal Value	Unit	Test Method
Density	1.52	g/cm ³	ISO 1183
Molding Shrinkage	0.30 - 0.70	%	DIN 16901
Water Absorption (23°C, 24 hr)	< 0.10	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	8000	MPa	ISO 527-2
Tensile Stress (Break)	110	MPa	ISO 527-2
Tensile Strain (Yield)	2.6	%	ISO 527-2
Flexural Modulus	7500	MPa	ISO 178
Flexural Stress	152	MPa	ISO 178
Flexural Strain at Flexural Strength	3.5	%	ISO 178
Maximum operating temperature-Short Term	150	°C	
Insulation Resistance	> 1.0E+12	ohms	IEC 60167
Impact	Nominal Value	Unit	Test Method

Charpy Notched Impact Strength (23°C)	11	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	45	kJ/m ²	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	208	°C	ISO 75-2/A
Continuous Use Temperature	120	°C	UL 746B
Vicat Softening Temperature	204	°C	ISO 306/A
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	> 1.0E+12	ohms	IEC 60093
Injection	Nominal Value	Unit	
Drying Temperature			
Hot air dryer	120	°C	
Hot air dryer, B	80	°C	
Drying Time			
Hot air dryer	1.0 - 4.0	hr	
Hot air dryer, B	2.0 - 6.0	hr	
Rear Temperature	230 - 250	°C	
Middle Temperature	230 - 260	°C	
Front Temperature	240 - 260	°C	
Nozzle Temperature	250 - 265	°C	
Processing (Melt) Temp	245	°C	
Mold Temperature	60 - 100	°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

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