LUVOCOM® 1105-7916-1

Polyetheretherketone

LEHVOSS Group

Message:

LUVOCOM® 1105-7916-1 is a polyetheretherketone (PEEK) 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 characteristics of 1105-7916-1 are:

Flame Retardant

Antistatic

Good stiffness

chemical resistance

Typical application areas include:

engineering/industrial accessories

textile/fiber

Aerospace

Mechanical

Automotive Industry

medical/health care

General Information								
Filler / Reinforcement	Carbon fiber reinforced material							
Additive	Antistatic property							
Features	Rigid, good							
	Antistatic property Good strength Good chemical resistance Hydrolysis resistance							
					Flame retardancy			
					Uses	Pump parts		
	Bushing							
Gear								
Textile applications								
Engineering accessories								
Aerospace applications								
Application in Automobile Field								
Medical/nursing supplies								
Bearing								
Appearance	Natural color							
Physical	Nominal Value	Unit	Test Method					
Density	1.34	g/cm³	ISO 1183					
Molding Shrinkage	0.20 - 0.80	%	DIN 16901					
Water Absorption (23°C, 24 hr)	< 0.10	%						

Unit

Test Method

Nominal Value

Tensile Modulus	10000	MPa	ISO 527-2
Tensile Stress (Break)	160	MPa	ISO 527-2
Tensile Strain (Yield)	2.5	%	ISO 527-2
Flexural Modulus	8500	MPa	ISO 178
Flexural Stress	235	MPa	ISO 178
Flexural Strain at Flexural Strength	3.3	%	ISO 178
Maximum operating temperature-Short Term	280	°C	
Insulation Resistance		ohms	IEC 60167
Impact	Nominal Value	Unit	Test Method
Charpy Unnotched Impact Strength (23°C)	30	kJ/m²	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Continuous Use Temperature	250	°C	UL 746B
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	< 1.0E+12	ohms	IEC 60093
Injection	Nominal Value	Unit	
Drying Temperature			
Hot air dryer, A	150	°C	
Hot air dryer, B	120	°C	
Drying Time			
Hot air dryer, A	3.0 - 6.0	hr	
Hot air dryer, B	6.0 - 8.0	hr	
Rear Temperature	360 - 370	°C	
Middle Temperature	380 - 390	°C	
Front Temperature			
	390 - 400	°C	
Nozzle Temperature	390 - 400 360 - 380	°C	
Nozzle Temperature Processing (Melt) Temp			
·	360 - 380	°C	
Processing (Melt) Temp	360 - 380 390	°C	

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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