

LUVOCOM® 70-9045

Polyketone

LEHVOSS Group

Message:

LUVOCOM®70-9045 is a Polyketone (PK) 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 70-9045 are:

Conductivity

anti-warping

Good stiffness

chemical resistance

Hydrolytic stability

LUVOCOM®The typical application fields of 70-9045 are: engineering/industrial accessories

General Information			
Filler / Reinforcement	Carbon fiber reinforced material		
Features	Conductivity		
	Low warpage		
	Rigid, good		
	Static conduction		
	Good strength		
	Good chemical resistance		
	Hydrolysis stability		
Uses	Cam		
Appearance	Black		
Physical	Nominal Value	Unit	Test Method
Density	1.33	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (230°C/2.16 kg)	15.0	cm ³ /10min	ISO 1133
Molding Shrinkage	0.20 - 0.40	%	DIN 16901
Water Absorption (23°C, 24 hr)	< 0.10	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	9000	MPa	ISO 527-2
Tensile Stress (Break)	130	MPa	ISO 527-2
Tensile Strain (Yield)	4.5	%	ISO 527-2
Flexural Modulus	7500	MPa	ISO 178
Flexural Stress	190	MPa	ISO 178
Flexural Strain at Flexural Strength	5.5	%	ISO 178
Maximum operating temperature-Short Term	150	°C	
Insulation Resistance		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)	55	kJ/m ²	ISO 179/1fU
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	208	°C	ISO 75-2/A
Continuous Use Temperature	110	°C	UL 746B
Vicat Softening Temperature	204	°C	ISO 306/A
CLTE - Flow	6.0E-5	cm/cm/°C	DIN 53752
Thermal Conductivity	0.40	W/m/K	DIN 52612
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	< 1.0E+6	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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