

LUVOCOM® 80/CF/12/TF/10/BK 100

Acetal (POM) Copolymer

LEHVOSS Group

Message:

LUVOCOM®80/CF/12/TF/10/BK 100 is a polyoxymethylene (POM) copolymer material, and its filler is 12% 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 80/CF/12/TF/10/BK 100 are:

Conductivity

Wear-resistant

Lubrication

Typical application areas include:

engineering/industrial accessories

textile/fiber

Automotive Industry

business/office supplies

General Information			
Filler / Reinforcement	Carbon fiber reinforced material, 12% filler by weight		
Additive	PTFE lubricant (10%)		
Features	Conductivity		
	Low friction coefficient		
	Static conduction		
	Good wear resistance		
	Lubrication		
Uses	Gear		
	Textile applications		
	Engineering accessories		
	Application in Automobile Field		
	Business equipment		
	Cam		
	Bearing		
Appearance	Natural color		
Physical	Nominal Value	Unit	Test Method
Density	1.50	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR)	12.0	cm ³ /10min	ISO 1133
Molding Shrinkage	0.30 - 0.70	%	DIN 16901
Water Absorption (23°C, 24 hr)	< 0.10	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	11000	MPa	ISO 527-2
Tensile Stress (Break)	95.0	MPa	ISO 527-2
Tensile Strain (Yield)	1.1	%	ISO 527-2

Flexural Modulus	8500	MPa	ISO 178
Flexural Stress	135	MPa	ISO 178
Flexural Strain at Flexural Strength	1.5	%	ISO 178
Maximum operating temperature-Short Term	120	°C	
Insulation Resistance		ohms	IEC 60167
Impact	Nominal Value	Unit	Test Method
Charpy Unnotched Impact Strength (23°C)	18	kJ/m ²	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	130	°C	ISO 75-2/A
Continuous Use Temperature	100	°C	UL 746B
Vicat Softening Temperature	160	°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+3	ohms	IEC 60093
Injection	Nominal Value	Unit	
Drying Temperature			
Dehumidification desiccant, B	120	°C	
Hot air dryer, A	75	°C	
Drying Time			
Dehumidification desiccant, B	2.0 - 4.0	hr	
Hot air dryer, A	2.0 - 8.0	hr	
Rear Temperature	175 - 190	°C	
Middle Temperature	185 - 205	°C	
Front Temperature	180 - 200	°C	
Nozzle Temperature	175 - 200	°C	
Processing (Melt) Temp	200	°C	
Mold Temperature	80 - 120	°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

If originally sealed containers are used, it is normally possible to omit the predrying stage. If PTFE materials are not predried, an increase in deposits inside the mould may occur. When changing from higher melting-point polymers such as polyamides to this product, extremely thorough intermediate cleaning should be carried out. Processing temperatures above 215°C may very rapidly cause thermal damage and should therefore be avoided, particularly as formaldehyde may be eliminated here.

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.

Please contact us for further information.

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