LUVOCOM® 80/CF/12/TF/10/GY

Acetal (POM) Copolymer

Lehmann & Voss & Co.

Message:

LUVOCOM®80/CF/12/TF/10/GY is a polyoxymethylene (POM) copolymer material, and the 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 characteristics of 80/CF/12/TF/10/GY are:
flame retardant/rated flame
Conductivity
Electrostatic protection
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 Electrostatic discharge protection Good wear resistance Lubrication		
Uses	Gear Textile applications Engineering accessories Application in Automobile Field Business equipment Cam Bearing		
Appearance	Grey		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	1.54	g/cm³	ISO 1183
Melt Volume-Flow Rate (MVR) (190°C/5.0 kg)	12.0	cm³/10min	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	8000	MPa	ISO 527-2

Tensile Stress (Break)	85.0	MPa	ISO 527-2
Tensile Strain (Yield)	2.5	%	ISO 527-2
Flexural Modulus	6000	MPa	ISO 178
Flexural Stress	125	MPa	ISO 178
Coefficient of Friction			
Dynamic	0.15		
Static	0.11		
Flexural Strain at Flexural Strength	3.2	%	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)	25	kJ/m^2	ISO 179/1eU
Thermal	**Nominal Value**	**Unit**	**Test Method**
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+6	ohms	IEC 60093
Flammability	**Nominal Value**	**Unit**	**Test Method**
Flame Rating	HB		UL 94
Injection	**Nominal Value**	**Unit**	
Drying Temperature			
A	75.0	°C	
Dehumidification desiccant, B	120	°C	
Drying Time			
A	2.0 - 8.0	hr	
Dehumidification desiccant, B	2.0 - 4.0	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	80.0 - 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.

Recommended distributors for this material

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