LUVOCOM® 16/XCF/25

Polyarylamide

Lehmann & Voss & Co.

Message:

LUVOCOM®16/XCF/25 is a polyacrylamide (PARA) material, which contains a 25% 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 16/XCF/25 are:
Conductivity
High stiffness
high strength
Electrostatic protection
Typical application areas include:
engineering/industrial accessories
Electrical/electronic applications
textile/fiber
Automotive Industry
business/office supplies

General Information	
Filler / Reinforcement	Carbon fiber reinforced material, 25% filler by weight
Features	Conductivity Rigidity, high High strength Electrostatic discharge protection
Uses	Gear Textile applications Engineering accessories Switch Application in Automobile Field Business equipment Bearing
Appearance	Natural color

Physical	Nominal Value	Unit	Test Method
Density	1.29	g/cm³	ISO 1183
Molding Shrinkage	0.0 - 0.10	%	DIN 16901
Water Absorption (23°C, 24 hr)	< 0.30	%	

Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	28000	MPa	ISO 527-2
Tensile Stress (Break)	350	MPa	ISO 527-2
Tensile Strain (Yield)	1.7	%	ISO 527-2
Flexural Modulus	24000	MPa	ISO 178
Flexural Stress	495	MPa	ISO 178

Flexural Strain at Flexural Strength	2.0	%	ISO 178
Maximum operating temperature-Short Term	180	°C	
Insulation Resistance		ohms	IEC 60167
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength (23°C)	8.0	kJ/m^2	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	60	kJ/m^2	ISO 179/1eU
Thermal	**Nominal Value**	**Unit**	**Test Method**
Heat Deflection Temperature (1.8 MPa, Unannealed)	240	°C	ISO 75-2/A
Continuous Use Temperature	130	°C	UL 746B
CLTE - Flow	4.0E-6	cm/cm/°C	DIN 53752
Thermal Conductivity [1]	1.0	W/m/K	
Electrical	**Nominal Value**	**Unit**	**Test Method**
Surface Resistivity	< 1.0E+3	ohms	IEC 60093
Injection	**Nominal Value**	**Unit**	
Drying Temperature			
B	130	°C	
Hot air dryer, A	100	°C	
Drying Time			
B	4.0 - 6.0	hr	
Hot air dryer, A	6.0 - 8.0	hr	
Suggested Max Moisture	0.10	%	
Rear Temperature	260 - 300	°C	
Middle Temperature	260 - 300	°C	
Front Temperature	260 - 300	°C	
Nozzle Temperature	250 - 290	°C	
Processing (Melt) Temp	285	°C	
Mold Temperature	110 - 140	°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
During processing the moisture level should not exceed 0.1%, otherwise molecular degradation and surface defects (e.g. smearing) may occur. Due to rapid absorption of water, originally sealed containers should only be opened immediately prior to processing. Excessively high predrying temperatures may cause discoloration.
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.

NOTE	
1.	Hot-Disk, 60x60x3 mm

Recommended distributors for this material

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