LUVOCOM® 20/XCF/35

Polyphthalamide

Lehmann & Voss & Co.

Message:

LUVOCOM® 20/XCF/35 is a polyxylene amide (PPA) material, which contains a 35% 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 20/XCF/35 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 n	naterial, 35% 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	1.35	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	36000	MPa	ISO 527-2	
Tensile Stress (Break)	390	MPa	ISO 527-2	
Tensile Strain (Yield)	1.7	%	ISO 527-2	
Flexural Modulus	31000	MPa	ISO 178	
Flexural Stress	530	MPa	ISO 178	

95 Nominal Value 0.0	°C ohms Unit kJ/m²	IEC 60167 Test Method
0.0	Unit	Test Method
0.0		
38	kJ/m²	ICO 170 /1 - A
		ISO 179/1eA
	kJ/m²	ISO 179/1eU
Nominal Value	Unit	Test Method
270	°C	ISO 75-2/A
65	°C	UL 746B
Nominal Value	Unit	Test Method
< 1.0E+3	ohms	IEC 60093
Nominal Value	Unit	
30.0	°C	
05	°C	
6	hr	
1.0 - 5.0	hr	
0.050	%	
320 - 340	°C	
320 - 345	°C	
325 - 350	°C	
320 - 330	°C	
330	°C	
35 - 160	°C	
30 30 10 10 32 32 32 32 32	ominal Value 1.0E+3 ominal Value 0.0 0.0 0.5 6 0 - 5.0 0.50 20 - 340 20 - 345 25 - 350 20 - 330 30	65 °C ominal Value Unit 1.0E+3 ohms ominal Value Unit 0.0 °C 05 °C 6 hr 00-5.0 hr 050 % 20-340 °C 25-350 °C 20-330 °C 30 °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 level should not exceed 0.05%, otherwise molecular degradation and surface defects (e.g. smearing) may occur. As the material absorbs water rapidly, originally sealed containers should only be opened immediately before processing. Processing temperatures above 340°C may very rapidly cause thermal damage and should therefore be avoided.

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.

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533 Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

