LUVOCOM® 20/AF/15/TF/10

Polyphthalamide

Lehmann & Voss & Co.

Message:

LUVOCOM © 20/AF/15/TF/10 is a polyxylylamide (PPA) material containing 15% aramid fiber. This product is available in North America, Africa and the Middle East, Latin America, Europe or Asia Pacific. LUVOCOM © The main features of 20/AF/15/TF/10 are: Wear-resistant Lubrication Typical application areas include: engineering/industrial accessories Electrical/electronic applications textile/fiber Automotive Industry

business/office supplies

Filler / Reinforcement Aramid fiber, 15% filler by weight Additive PTTE lubricant (10%) Features Low friction coefficient Good wear resistance Lubrication Uses Gear Textile applications Engineering accessories Switch Application in Automobile Field Application in Automobile Field Business equipment Bearing Business equipment Bearing 128 g/cm³ Molding Shrinkage 0.70 - 1.4 % Molding Shrinkage 5000 MPa Molding Shrinkage 5000 MPa Tensile Modulus 5000 MPa Tensile Modulus 65.0 MPa Featural Kreag 4500 MPa Fleural Modulus 4500 MPa Fleural Modulus 50.07.2 Featural Streag	General Information				
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Flexural Strain at Flexural Strength 2.3 % ISO 178	Flexural Stress	94.0	MPa	ISO 178	
	Flexural Strain at Flexural Strength	2.3	%	ISO 178	

Maximum operating temperature-Short			
Term	195	°C	
Insulation Resistance	> 1.0E+12	ohms	IEC 60167
Impact	Nominal Value	Unit	Test Method
Charpy Unnotched Impact Strength			
-30°C	12	kJ/m²	ISO 179/1fU
23°C	15	kJ/m²	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa,			
Unannealed)	258	°C	ISO 75-2/A
Continuous Use Temperature	165	°C	UL 746B
Injection	Nominal Value	Unit	
Drying Temperature			
А	80.0	°C	
Vacuum dryer, B	105	°C	
Drying Time			
А	16	hr	
Vacuum dryer, B	4.0 - 5.0	hr	
Suggested Max Moisture	0.050	%	
Rear Temperature	320 - 340	°C	
Middle Temperature	320 - 345	°C	
Front Temperature	325 - 350	°C	
Nozzle Temperature	320 - 330	°C	
Processing (Melt) Temp	330	°C	
Mold Temperature	135 - 160	°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 0.05%, 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.

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