LUVOCOM® 20-0778/BK

Polyphthalamide

Lehmann & Voss & Co.

Message:

LUVOCOM®20-0778/BK is a polyxylene amide (PPA) material, and the filler is glass 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 20-0778/BK are:
High stiffness
high strength
Wear-resistant
Lubrication
Typical application areas include:
engineering/industrial accessories
Electrical/electronic applications
textile/fiber
Automotive Industry
business/office supplies

General Information	
Filler / Reinforcement	Glass fiber reinforced material
Additive	PTFE lubricant
Features	Low friction coefficient Rigidity, high High strength Good wear resistance Lubrication
Uses	Gear Textile applications Engineering accessories Switch Application in Automobile Field Business equipment Bearing
Appearance	Black

Physical	Nominal Value	Unit	Test Method
Density	1.56	g/cm³	ISO 1183
Molding Shrinkage	0.20 - 0.60	%	DIN 16901
Water Absorption (23°C, 24 hr)	< 0.30	%	

Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	12000	MPa	ISO 527-2
Tensile Stress (Break)	195	MPa	ISO 527-2
Tensile Strain (Yield)	2.0	%	ISO 527-2

Flexural Modulus	10000	MPa	ISO 178
Flexural Stress	275	MPa	ISO 178
Coefficient of Friction			
Dynamic	0.18		
Static	0.15		
Flexural Strain at Flexural Strength	2.5	%	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			ISO 179/1fU
-30°C	40	kJ/m^2	ISO 179/1fU
23°C	45	kJ/m^2	ISO 179/1fU
Thermal	**Nominal Value**	**Unit**	**Test Method**
Heat Deflection Temperature (1.8 MPa, Unannealed)	270	°C	ISO 75-2/A
Continuous Use Temperature	165	°C	UL 746B
Vicat Softening Temperature	295	°C	ISO 306/A
Injection	**Nominal Value**	**Unit**	
Drying Temperature			
A	80.0	°C	
Vacuum dryer, B	105	°C	
Drying Time			
A	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.

Recommended distributors for this material

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