LUVOCOM® 20-8943

Polyphthalamide

Lehmann & Voss & Co.

Message:

LUVOCOM®20-8943 is a polyxylylamide (PPA) material containing a mineral filler. This product is available in Europe.
LUVOCOM®The main features of 20-8943 are:
anti-warping
Good stiffness
Typical application areas include:
engineering/industrial accessories
textile/fiber
Automotive Industry
business/office supplies

General Information			
Filler / Reinforcement	Mineral filler		
Features	Low warpage Rigid, good Good strength		
Uses	Pump parts Bushing Gear Textile applications Engineering accessories Application in Automobile Field Business equipment Bearing		
Appearance	Natural color		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	1.51	g/cm³	ISO 1183
Molding Shrinkage	0.40 - 0.70	%	DIN 16901
Water Absorption (23°C, 24 hr)	< 0.30	%	
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	14000	MPa	ISO 527-2
Tensile Stress (Break)	105	MPa	ISO 527-2
Tensile Strain (Yield)	1.5	%	ISO 527-2
Flexural Modulus	12000	MPa	ISO 178
Flexural Stress	160	MPa	ISO 178
Flexural Strain at Flexural Strength	2.0	%	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 (23°C)	13	kJ/m^2	ISO 179/1eU
Thermal	**Nominal Value**	**Unit**	**Test Method**
Continuous Use Temperature	165	°C	UL 746B
Electrical	**Nominal Value**	**Unit**	**Test Method**
Surface Resistivity	> 1.0E+12	ohms	IEC 60093
Injection	**Nominal Value**	**Unit**	
Drying Temperature			
A	80.0	°C	
B	110	°C	
Drying Time			
A	6.0 - 16	hr	
B	4.0 - 6.0	hr	
Suggested Max Moisture	0.050	%	
Rear Temperature	320 - 340	°C	
Middle Temperature	320 - 340	°C	
Front Temperature	320 - 345	°C	
Nozzle Temperature	330 - 345	°C	
Processing (Melt) Temp	340	°C	
Mold Temperature	110 - 150	°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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