LUVOCOM® 20-8149

Polyphthalamide

Lehmann & Voss & Co.

Message:

LUVOCOM® 20-8149 is a polyxylene amide (PPA) material, which contains glass and carbon fiber reinforced materials. This product is available in North America, Africa and the Middle East, Latin America, Europe or Asia Pacific.

LUVOCOM®The main features of 20-8149 are:

Conductivity

anti-warping

Good stiffness

Typical application areas include:

engineering/industrial accessories

textile/fiber

Automotive Industry

business/office supplies

General Information				
Filler / Reinforcement	Glass, carbon fiber reinforced	materials		
Features	Heat conduction			
	Low warpage			
	Rigid, good			
	Good strength			
Uses	Gear			
	Textile applications			
	Engineering accessories			
	Application in Automobile Field			
	Business equipment			
Appearance	Black			
Physical	Nominal Value	Unit	Test Method	
Density	1.44	g/cm³	ISO 1183	
Molding Shrinkage	0.20 - 0.50	%	DIN 16901	
Water Absorption (23°C, 24 hr)	< 0.30	%		
Mechanical	Nominal Value	Unit	Test Method	
Tensile Modulus	19000	МРа	ISO 527-2	
Tensile Stress (Break)	135	MPa	ISO 527-2	
Tensile Strain (Yield)	1.0	%	ISO 527-2	
Flexural Modulus	16000	MPa	ISO 178	
Flexural Stress	200	MPa	ISO 178	
Flexural Strain at Flexural Strength	1.2	%	ISO 178	
Maximum operating temperature-Short Term	195	°C		
Insulation Resistance		ohms	IEC 60167	

Impact	Nominal Value	Unit	Test Method
Charpy Unnotched Impact Strength (23°C)	17	kJ/m²	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Continuous Use Temperature	165	°C	UL 746B
Thermal Conductivity ¹	3.8	W/m/K	
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	< 1.0E+9	ohms	IEC 60093
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.

NOTE

1. Hot-Disk, 60x60x3 mm

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.

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

