

# LUVOCOM® 1106-7843

Polyether Imide

Lehmann & Voss & Co.

## Message:

LUVOCOM® 1106-7843 is a polyetherimide (PEI) 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 1106-7843 are:

Good stiffness

Wear-resistant

Lubrication

General Information			
Filler / Reinforcement	Glass fiber reinforced material		
Additive	PTFE lubricant		
Features	Low friction coefficient		
	Rigid, good		
	Good liquidity		
	Good strength		
	Good wear resistance		
	Lubrication		
Appearance	Black		
Physical	Nominal Value	Unit	Test Method
Density	1.69	g/cm <sup>3</sup>	ISO 1183
Molding Shrinkage	0.10 - 0.30	%	DIN 16901
Water Absorption (23°C, 24 hr)	< 0.30	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	11000	MPa	ISO 527-2
Tensile Stress (Break)	120	MPa	ISO 527-2
Tensile Strain (Yield)	1.3	%	ISO 527-2
Flexural Modulus	9000	MPa	ISO 178
Flexural Stress	170	MPa	ISO 178
Coefficient of Friction			
Dynamic	0.23		
Static	0.26		
Flexural Strain at Flexural Strength	1.7	%	ISO 178
Maximum operating temperature-Short Term	200	°C	
Insulation Resistance	> 1.0E+12	ohms	IEC 60167
Impact	Nominal Value	Unit	Test Method
Charpy Unnotched Impact Strength (23°C)	21	kJ/m <sup>2</sup>	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method

Heat Deflection Temperature (1.8 MPa, Unannealed)	205	°C	ISO 75-2/A
Continuous Use Temperature	170	°C	UL 746B
Vicat Softening Temperature	220	°C	ISO 306/A
CLTE - Flow	1.4E-5	cm/cm/°C	DIN 53752
Thermal Conductivity <sup>1</sup>	0.50	W/m/K	
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	> 1.0E+12	ohms	IEC 60093
Injection	Nominal Value	Unit	
Drying Temperature			
Hot air dryer, A	120	°C	
Hot air dryer, B	150	°C	
Drying Time			
Hot air dryer, A	> 8.0	hr	
Hot air dryer, B	> 4.0	hr	
Suggested Max Moisture	0.030	%	
Rear Temperature	330 - 350	°C	
Middle Temperature	340 - 390	°C	
Front Temperature	350 - 400	°C	
Nozzle Temperature	350 - 400	°C	
Processing (Melt) Temp	380	°C	
Mold Temperature	150 - 180	°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 0.03%, otherwise porosity and surface defects (e.g. smearing) may occur. Predrying is recommended even when sealed original containers are being used. To avoid internal stresses, a low shear load should be used for processing.			
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		

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## 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

