

# LUVOCOM® 7-0755

Polyamide 610  
Lehmann & Voss & Co.

Message:

LUVOCOM®7-0755 is a polyamide 610 (nylon 6/10) 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 7-0755 are:

High stiffness  
high strength  
Good dimensional stability  
moisture resistance  
Wear-resistant

Typical application areas include:  
engineering/industrial accessories  
textile/fiber  
Automotive Industry  
business/office supplies  
Handle

General Information			
Filler / Reinforcement	Glass fiber reinforced material		
Additive	PTFE lubricant		
Features	Good dimensional stability		
	Low friction coefficient		
	Rigidity, high		
	High strength		
	Good wear resistance		
	Lubrication		
	Low or no water absorption		
Uses	Handle		
	Textile applications		
	Engineering accessories		
	Machine/mechanical parts		
	Application in Automobile Field		
	Business equipment		
	Bearing		
Appearance	Natural color		
Physical	Nominal Value	Unit	Test Method
Density	1.41	g/cm³	ISO 1183
Molding Shrinkage	0.20 - 0.40	%	DIN 16901
Water Absorption (23°C, 24 hr)	< 0.15	%	
Mechanical	Nominal Value	Unit	Test Method

Tensile Modulus	11000	MPa	ISO 527-2
Tensile Stress (Break)	200	MPa	ISO 527-2
Tensile Strain (Yield)	3.5	%	ISO 527-2
Flexural Modulus	9000	MPa	ISO 178
Flexural Stress	290	MPa	ISO 178
Coefficient of Friction			
Dynamic	0.35		
Static	0.25		
Flexural Strain at Flexural Strength	4.0	%	ISO 178
Maximum operating temperature-Short Term	140	°C	
Insulation Resistance	> 1.0E+12	ohms	IEC 60167
Impact	Nominal Value	Unit	Test Method
Charpy Unnotched Impact Strength			
-30°C	85	kJ/m <sup>2</sup>	ISO 179/1fU
23°C	100	kJ/m <sup>2</sup>	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	210	°C	ISO 75-2/A
Continuous Use Temperature	90.0	°C	UL 746B
CLTE - Flow	4.0E-5	cm/cm/°C	DIN 53752
Thermal Conductivity	0.30	W/m/K	DIN 52612
Injection	Nominal Value	Unit	
Drying Temperature			
A	75.0	°C	
B	105	°C	
Drying time-A	6.0 - 10	hr	
Suggested Max Moisture	0.10	%	
Rear Temperature	240 - 270	°C	
Middle Temperature	260 - 280	°C	
Front Temperature	270 - 290	°C	
Nozzle Temperature	270 - 290	°C	
Processing (Melt) Temp	265	°C	
Mold Temperature	70.0 - 100	°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 0.1%, otherwise molecular degradation and surface defects (e.g. smearing) may occur. As the material absorbs water very rapidly, originally sealed containers should only be opened immediately before processing. Excessively high predrying temperatures may cause discoloration.

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.

Please contact us for further information.

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#### Recommended distributors for this material

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