

# LUVOCOM® 16-8960/ES

Polyarylamide  
Lehmann & Voss & Co.

Message:

LUVOCOM® 16-8960/ES is a polyacrylamide (PARA) material, which contains steel fillers and carbon fiber reinforced materials. This product is available in Europe.

LUVOCOM®The main features of 16-8960/ES are:

Conductivity

Electromagnetic shielding (EMI)

Electrostatic protection

Good stiffness

moisture resistance

Typical application areas include:

engineering/industrial accessories

House

textile/fiber

Automotive Industry

business/office supplies

General Information			
Filler / Reinforcement	Steel filler		
	Carbon fiber reinforced material		
Features	Conductivity		
	Electromagnetic shielding (EMI)		
	Rigid, good		
	Electrostatic discharge protection		
	Good strength		
	Low or no water absorption		
Uses	Handle		
	Textile applications		
	Engineering accessories		
	Roller		
	Application in Automobile Field		
	Business equipment		
	Shell		
Appearance	Black		
Physical	Nominal Value	Unit	Test Method
Density	1.41	g/cm <sup>3</sup>	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	10000	MPa	ISO 527-2
Tensile Stress (Break)	125	MPa	ISO 527-2
Tensile Strain (Yield)	1.6	%	ISO 527-2
Flexural Modulus	9000	MPa	ISO 178
Flexural Stress	180	MPa	ISO 178
Flexural Strain at Flexural Strength	2.1	%	ISO 178
Maximum operating temperature-Short Term	160	°C	
Insulation Resistance		ohms	IEC 60167
Impact	Nominal Value	Unit	Test Method
Charpy Unnotched Impact Strength			
-30°C	19	kJ/m <sup>2</sup>	ISO 179/1fU
23°C	20	kJ/m <sup>2</sup>	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	230	°C	ISO 75-2/A
Continuous Use Temperature	120	°C	UL 746B
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	< 1.0E+2	ohms	IEC 60093
Injection	Nominal Value	Unit	
Drying Temperature			
B	130	°C	
Hot air dryer, A	100	°C	
Drying Time			
B	4.0 - 6.0	hr	
Hot air dryer, A	6.0 - 8.0	hr	
Suggested Max Moisture	0.10	%	
Rear Temperature	260 - 300	°C	
Middle Temperature	260 - 300	°C	
Front Temperature	260 - 300	°C	
Nozzle Temperature	250 - 290	°C	
Processing (Melt) Temp	285	°C	
Mold Temperature	110 - 140	°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. Due to rapid absorption of water, originally sealed containers should only be opened immediately prior to 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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