

LUVOCOM® 105-8990

Thermoplastic Elastomer

Lehmann & Voss & Co.

Message:

LUVOCOM® 105-8990 is a thermoplastic elastomer (TPE) material. This product is available in Europe.

LUVOCOM® The main features of 105-8990 are:

Conductivity

Electrostatic protection

Typical application areas include:

engineering/industrial accessories

House

Automotive Industry

Handle

General Information			
Features	Conductivity		
	Heat conduction		
	Electrostatic discharge protection		
Uses	Handle		
	Engineering accessories		
	Roller		
	Application in Automobile Field		
	Shell		
Appearance	Black		
Physical	Nominal Value	Unit	Test Method
Density	1.32	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (250°C/10.0 kg)	3.0	g/10 min	ISO 1133
Molding Shrinkage	0.60 - 1.2	%	DIN 16901
Water Absorption (23°C, 24 hr)	< 0.30	%	
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	50		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	200	MPa	ISO 527-2
Tensile Stress (Break)	15.0	MPa	ISO 527-2
Tensile Strain (Yield)	150	%	ISO 527-2
Impact	Nominal Value	Unit	Test Method
Charpy Unnotched Impact Strength (23°C)	No Break		ISO 179/1fU
Thermal	Nominal Value	Unit	Test Method
Continuous Use Temperature	120	°C	UL 746B

Maximum operating temperature-Short Term	150	°C	
Insulation Resistance	> 1.0E+13	ohms	IEC 60167
Thermal Conductivity ¹	4.0	W/m/K	
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	> 1.0E+13	ohms	IEC 60093
Injection	Nominal Value	Unit	
Drying temperature-Hot air dryer, A	105	°C	
Drying time-Hot air dryer, A	3.0 - 4.0	hr	
Suggested Max Moisture	0.010	%	
Rear Temperature	220 - 240	°C	
Middle Temperature	230 - 250	°C	
Front Temperature	230 - 250	°C	
Nozzle Temperature	230 - 250	°C	
Processing (Melt) Temp	240	°C	
Mold Temperature	20.0 - 45.0	°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 0.01%, otherwise molecular degradation may occur. As the material absorbs water very rapidly, originally sealed containers should only be opened immediately before 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.

Please contact us for further information.

NOTE

- Hot-Disk, 60x60x3 mm

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