

LUVOCOM® 90-8551-1

High Density Polyethylene

Lehmann & Voss & Co.

Message:

LUVOCOM® 90-8551-1 is a high-density polyethylene material. This product is available in Europe. LUVOCOM® The main characteristics of 90-8551-1 are: conductivity.

LUVOCOM® The typical application fields of 90-8551-1 are: engineering/industrial accessories

General Information			
Features	Heat conduction		
Uses	Thin wall parts		
Appearance	Natural color		
Physical	Nominal Value	Unit	Test Method
Density	1.75	g/cm ³	ISO 1183
Molding Shrinkage	2.0 - 3.0	%	DIN 16901
Water Absorption (23°C, 24 hr)	< 0.10	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2800	MPa	ISO 527-2
Tensile Stress (Break)	22.0	MPa	ISO 527-2
Tensile Strain (Yield)	1.5	%	ISO 527-2
Impact	Nominal Value	Unit	Test Method
Charpy Unnotched Impact Strength			
-30°C	6.0	kJ/m ²	ISO 179/1fU
23°C	7.0	kJ/m ²	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Continuous Use Temperature	80.0	°C	UL 746B
Maximum operating temperature-Short Term	110	°C	
Insulation Resistance	> 1.0E+12	ohms	IEC 60167
Vicat Softening Temperature	120	°C	ISO 306/A
CLTE - Flow	1.5E-4	cm/cm/°C	DIN 53752
Thermal Conductivity ¹	2.0	W/m/K	
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	> 1.0E+12	ohms	IEC 60093
Injection	Nominal Value	Unit	
Drying Temperature	85.0	°C	
Drying Time	2.0 - 3.0	hr	
Rear Temperature	190 - 230	°C	
Middle Temperature	200 - 250	°C	
Front Temperature	210 - 260	°C	
Nozzle Temperature	220 - 260	°C	

Processing (Melt) Temp	250	°C
Mold Temperature	10.0 - 40.0	°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

If originally sealed containers are used, it is normally possible to omit the predrying stage. If PTFE materials are not predried, an increase in deposits inside the mould may occur.

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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