

# LUVOCOM® 1850-8628

Polybutylene Terephthalate

Lehmann & Voss & Co.

## Message:

LUVOCOM® 1850-8628 is a polybutene terephthalate (PBT) material containing carbon nanofillers. This product is available in North America, Africa and the Middle East, Latin America, Europe or Asia Pacific.

LUVOCOM® The main features of 1850-8628 are:

flame retardant/rated flame

Conductivity

Electrostatic protection

anti-warping

Typical application areas include:

Electrical/electronic applications

House

textile/fiber

engineering/industrial accessories

Automotive Industry

General Information			
Filler / Reinforcement	Carbon nano filler		
Features	Conductivity		
	Low warpage		
	Electrostatic discharge protection		
	Antistatic property		
Uses	Electrical/Electronic Applications		
	Textile applications		
	Engineering accessories		
	Application in Automobile Field		
	Business equipment		
	Shell		
Appearance	Black		
Physical	Nominal Value	Unit	Test Method
Density	1.34	g/cm <sup>3</sup>	ISO 1183
Molding Shrinkage	1.4 - 2.0	%	DIN 16901
Water Absorption (23°C, 24 hr)	< 0.15	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2800	MPa	ISO 527-2
Tensile Stress (Break)	52.0	MPa	ISO 527-2
Tensile Strain (Yield)	2.5	%	ISO 527-2
Flexural Modulus	2400	MPa	ISO 178
Flexural Stress	92.0	MPa	ISO 178
Flexural Strain at Flexural Strength	3.5	%	ISO 178

Maximum operating temperature-Short Term	150	°C	
Insulation Resistance	1.0E+2	ohms	IEC 60167
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	88.0	°C	ISO 75-2/A
Continuous Use Temperature	130	°C	UL 746B
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	< 1.0E+5	ohms	IEC 60093
Flammability	Nominal Value	Unit	Test Method
Flame Rating <sup>1</sup>	HB		UL 94
Injection	Nominal Value	Unit	
Drying Temperature			
A	120	°C	
Vacuum dryer, B	80.0	°C	
Drying Time			
A	4.0 - 6.0	hr	
Vacuum dryer, B	6.0 - 8.0	hr	
Suggested Max Moisture	0.020	%	
Rear Temperature	240 - 260	°C	
Middle Temperature	260 - 280	°C	
Front Temperature	250 - 270	°C	
Nozzle Temperature	250 - 265	°C	
Processing (Melt) Temp	250	°C	
Mold Temperature	60.0 - 120	°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 0.02%, otherwise molecular degradation and surface defects (e.g. smearing) may occur. As the material absorbs water very quickly, the predried material should be fed to the processing immediately. Processing temperatures above 270°C may very rapidly cause thermal damage and should therefore be avoided.

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

1. Not recognized by UL.

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any

infringement occurs, please contact us immediately.

Recommended distributors for this material

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

