

# LUVOCOM® 1200-7116-1

Acrylonitrile Butadiene Styrene

Lehmann & Voss & Co.

## Message:

LUVOCOM® 1200-7116-1 is an acrylonitrile butadiene styrene (ABS) material, and the filler is carbon 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 1200-7116-1 are:

Conductivity

Electrostatic protection

Good stiffness

General Information			
Filler / Reinforcement	Carbon fiber reinforced material		
Features	Conductivity		
	Rigid, good		
	Electrostatic discharge protection		
	Good strength		
Appearance	Black		
Physical	Nominal Value	Unit	Test Method
Density	1.09	g/cm <sup>3</sup>	ISO 1183
Melt Mass-Flow Rate (MFR) (220°C/10.0 kg)	14	g/10 min	ISO 1133
Melt Volume-Flow Rate (MVR) (220°C/10.0 kg)	14.0	cm <sup>3</sup> /10min	ISO 1133
Molding Shrinkage	0.20 - 0.40	%	DIN 16901
Water Absorption (23°C, 24 hr)	< 0.30	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	7000	MPa	ISO 527-2
Tensile Stress (Break)	90.0	MPa	ISO 527-2
Tensile Strain (Yield)	1.5	%	ISO 527-2
Flexural Modulus	6000	MPa	ISO 178
Flexural Stress	130	MPa	ISO 178
Coefficient of Friction			
Dynamic	0.19		
Static	0.21		
Flexural Strain at Flexural Strength	1.9	%	ISO 178
Maximum operating temperature-Short Term	80	°C	
Insulation Resistance	1.0E+2	ohms	IEC 60167
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	6.0	kJ/m <sup>2</sup>	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	18	kJ/m <sup>2</sup>	ISO 179/1eU

Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	96.0	°C	ISO 75-2/A
Continuous Use Temperature	60.0	°C	UL 746B
Vicat Softening Temperature	100	°C	ISO 306/A
CLTE - Flow	4.0E-5	cm/cm/°C	DIN 53752
Thermal Conductivity	0.23	W/m/K	DIN 52612
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	< 1.0E+5	ohms	IEC 60093
Injection	Nominal Value	Unit	
Drying Temperature - Desiccant Dryer	70.0 - 95.0	°C	
Drying Time - Desiccant Dryer	2.0 - 4.0	hr	
Suggested Max Moisture	0.10	%	
Rear Temperature	220 - 250	°C	
Middle Temperature	220 - 250	°C	
Front Temperature	230 - 260	°C	
Nozzle Temperature	220 - 250	°C	
Processing (Melt) Temp	230 - 260	°C	
Mold Temperature	40.0 - 80.0	°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 content should not exceed 0.1%. Moisture may lead to smearing and in extreme cases to foaming. Usually the material can be processed over a broad temperature range and can thus be adapted to a wide variety of processing conditions. Temperatures >270°C may lead to thermal damage.

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.

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

