LUVOCOM® 1200-7116

Acrylonitrile Butadiene Styrene

LEHVOSS Group

Message:

LUVOCOM®1200-7116 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 characteristics of 1200-7116 are: conductivity.

General Information			
Filler / Reinforcement	Carbon fiber reinforced material		
Features	Conductivity Static conduction		
Appearance	Black		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	1.08	g/cm³	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	cm³/10min	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	6000	MPa	ISO 527-2
Tensile Stress (Break)	80.0	MPa	ISO 527-2
Tensile Strain (Yield)	1.5	%	ISO 527-2
Flexural Modulus	5000	MPa	ISO 178
Flexural Stress	105	MPa	ISO 178
Flexural Strain at Flexural Strength	2.0	%	ISO 178
Maximum operating temperature-Short Term	80	°C	
Insulation Resistance		ohms	IEC 60167
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength (23°C)	6.0	kJ/m²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	18	kJ/m²	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+4	ohms	IEC 60093

Injection	Nominal Value	Unit
Drying Temperature - Desiccant Dryer	70 - 95	°C
Drying Time - Desiccant Dryer	2.0 - 4.0	hr
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 - 80	°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.

Recommended distributors for this material

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