LUVOCOM® TPU-7682

Polyurethane

Lehmann & Voss & Co.

Message:

LUVOCOM®TPU-7682 is a thermoplastic polyurethane elastomer material, and its 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 the TPU-7682 are:
Conductivity
Electrostatic protection
anti-warping
Wear-resistant
Typical application areas include:
engineering/industrial accessories
Handle

General Information			
Filler / Reinforcement	Carbon fiber reinforced material		
Features	Conductivity Low warpage Electrostatic discharge protection Good wear resistance		
Uses	Handle Roller Bearing		
Appearance	Natural color		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	1.31	g/cm³	ISO 1183
Molding Shrinkage	0.20 - 0.60	%	DIN 16901
Water Absorption (23°C, 24 hr)	< 0.50	%	
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness (Shore D)	50		ISO 868
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	800	MPa	ISO 527-2
Tensile Stress (Break)	42.0	MPa	ISO 527-2
Tensile Strain (Yield)	20	%	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	80.0	°C	UL 746B
Maximum operating temperature-Short Term	110	°C	

Insulation Resistance		ohms	IEC 60167
Vicat Softening Temperature	115	°C	ISO 306/A

Injection	Nominal Value	Unit
Drying Temperature		
Dehumidification desiccant, B	100 - 110	°C
Hot air dryer, A	60.0 - 90.0	°C
Drying Time		
Dehumidification desiccant, B	2.0 - 3.0	hr
Hot air dryer, A	2.0 - 3.0	hr
Suggested Max Moisture	0.010	%
Rear Temperature	190 - 230	°C
Middle Temperature	190 - 230	°C
Front Temperature	190 - 230	°C
Nozzle Temperature	200 - 240	°C
Processing (Melt) Temp	225	°C
Mold Temperature	25.0 - 60.0	°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.

Recommended distributors for this material

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