LUVOCOM®
1850/CF/10/GF/10/GK/10/GS/5/FR

Polybutylene Terephthalate

Lehmann & Voss & Co.

Message:

LUVOCOM®1850/CF/10/GF/10/GK/10/GS/5/FR is a polybutene terephthalate (PBT) material, which contains 5.0% glass flakes, 10% glass fiber reinforced materials, 10% glass beads and 10% carbon fiber reinforced materials. This product is available in North America, Africa and the Middle East, Latin America, Europe or Asia Pacific.
LUVOCOM®The main characteristics of 1850/CF/10/GF/10/GK/10/GS/5/FR are:
flame retardant/rated flame
Conductivity
Electrostatic protection
anti-warping
Good dimensional stability
Typical application areas include:
Electrical/electronic applications
House
textile/fiber
engineering/industrial accessories
Automotive Industry

General Information	
Filler / Reinforcement	Glass flake, 5.0% filler by weight Glass fiber reinforced material, 10% filler by weight Glass beads, 10% filler by weight Carbon fiber reinforced material, 10% filler by weight
Features	Good dimensional stability Conductivity Low warpage Electrostatic discharge protection Antistatic property
Uses	Electrical/Electronic Applications Textile applications Engineering accessories Application in Automobile Field Business equipment Shell
Appearance	Natural color

Physical	Nominal Value	Unit	Test Method
Density	1.50	g/cm³	ISO 1183

Melt Volume-Flow Rate (MVR) (250°C/10.0 kg)	14.0	cm^3/10min	ISO 1133
Molding Shrinkage	0.20 - 0.50	%	DIN 16901
Water Absorption (23°C, 24 hr)	< 0.10	%	
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	10000	MPa	ISO 527-2
Tensile Stress (Break)	110	MPa	ISO 527-2
Tensile Strain (Yield)	2.5	%	ISO 527-2
Flexural Modulus	9500	MPa	ISO 178
Flexural Stress	155	MPa	ISO 178
Coefficient of Friction			
Dynamic	0.24		
Static	0.19		
Flexural Strain at Flexural Strength	3.5	%	ISO 178
Maximum operating temperature-Short Term	160	°C	
Insulation Resistance		ohms	IEC 60167
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Unnotched Impact Strength			ISO 179/1fU
-30°C	40	kJ/m^2	ISO 179/1fU
23°C	35	kJ/m^2	ISO 179/1fU
Thermal	**Nominal Value**	**Unit**	**Test Method**
Continuous Use Temperature	130	°C	UL 746B
Vicat Softening Temperature	215	°C	ISO 306/A
Electrical	**Nominal Value**	**Unit**	**Test Method**
Surface Resistivity	< 1.0E+3	ohms	IEC 60093
Flammability	**Nominal Value**	**Unit**	**Test Method**
Flame Rating	V-0		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.

Recommended distributors for this material

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