LUVOCOM® 1105-7251

Polyetheretherketone

Lehmann & Voss & Co.

Message:

LUVOCOM®1105-7251 is a polyetheretherketone (PEEK) material, which contains a glass 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 1105-7251 are:
flame retardant/rated flame
Flame Retardant
sterilizable
Good dimensional stability
Good stiffness
Typical application areas include:
textile/fiber
engineering/industrial accessories
Aerospace
Automotive Industry
medical/health care

General Information			
Filler / Reinforcement	Glass fiber reinforced material		
Features	Good dimensional stability Rigid, good Good strength Good chemical resistance Heat resistance, high Hydrolysis resistance Disinfect with steam Flame retardancy		
Uses	Textile applications Engineering accessories Aerospace applications Application in Automobile Field Medical/nursing supplies		
Appearance	Natural color		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	1.84	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (380°C/5.0 kg)	15	g/10 min	ISO 1133
Molding Shrinkage	0.40 - 0.80	%	DIN 16901
Water Absorption (23°C, 24 hr)	< 0.10	%	
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	14500	MPa	ISO 527-2

Tensile Stress (Break)	90.0	MPa	ISO 527-2
Tensile Strain (Yield)	1.5	%	ISO 527-2
Flexural Modulus	13000	MPa	ISO 178
Flexural Stress	160	MPa	ISO 178
Coefficient of Friction			
Dynamic	0.32		
Static	0.30		
Flexural Strain at Flexural Strength	1.0	%	ISO 178
Maximum operating temperature-Short Term	260	°C	
Insulation Resistance	> 1.0E+12	ohms	IEC 60167
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Unnotched Impact Strength (23°C)	21	kJ/m^2	ISO 179/1eU
Thermal	**Nominal Value**	**Unit**	**Test Method**
Continuous Use Temperature	250	°C	UL 746B
Vicat Softening Temperature	330	°C	ISO 306/A
CLTE - Flow	2.2E-5	cm/cm/°C	DIN 53752
Thermal Conductivity	0.50	W/m/K	DIN 52612
Flammability	**Nominal Value**	**Unit**	**Test Method**
Flame Rating [1]	V-0		UL 94
Injection	**Nominal Value**	**Unit**	
Drying Temperature			
Hot air dryer, A	150	°C	
Hot air dryer, B	120	°C	
Drying Time			
Hot air dryer, A	3.0 - 6.0	hr	
Hot air dryer, B	6.0 - 8.0	hr	
Suggested Max Moisture	0.050	%	
Rear Temperature	360 - 370	°C	
Middle Temperature	380 - 390	°C	
Front Temperature	390 - 400	°C	
Nozzle Temperature	360 - 380	°C	
Processing (Melt) Temp	390	°C	
Mold Temperature	170 - 190	°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 0.05%. To avoid internal stresses, a medium to high injection rate should be used. An increase in tool temperature may be helpful. Post-crystallization may lead to warpage at elevated operating temperatures. This can be counteracted by suitable heat treatment.
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.
High-temperature polymers place increased demands on the tool steels employed.
Please contact us for further information.

NOTE	
1.	Not recognized by UL.

Recommended distributors for this material

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