LUVOCOM® 1105-8099 VP

Polyetheretherketone

Lehmann & Voss & Co.

Message:

LUVOCOM®1105-8099 VP is a polyetheretherketone (PEEK) material, which contains mineral fillers. This product is available in North America, Africa and the Middle East, Latin America, Europe or Asia Pacific.
LUVOCOM®The main features of 1105-8099 VP are:
flame retardant/rated flame
Flame Retardant
sterilizable
Good dimensional stability
chemical resistance
Typical application areas include:
Electrical/electronic applications
Reflector
textile/fiber
engineering/industrial accessories
Aerospace

General Information			
Filler / Reinforcement	Mineral filler		
Features	Good dimensional stability Good disinfection Good chemical resistance Heat resistance, high Hydrolysis stability Flame retardancy		
Uses	Reflector Textile applications Engineering accessories Aerospace applications Switch Application in Automobile Field Medical/nursing supplies		
Appearance	Natural color		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	1.63	g/cm³	ISO 1183
Molding Shrinkage	1.0 - 1.6	%	DIN 16901
Water Absorption (23°C, 24 hr)	< 0.10	%	
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	5000	MPa	ISO 527-2
Tensile Stress (Break)	80.0	MPa	ISO 527-2

Tensile Strain (Yield)	4.0	%	ISO 527-2
Flexural Modulus	4000	MPa	ISO 178
Flexural Stress	120	MPa	ISO 178
Flexural Strain at Flexural Strength	6.0	%	ISO 178
Maximum operating temperature-Short Term	270	°C	
Insulation Resistance	> 1.0E+12	ohms	IEC 60167
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Unnotched Impact Strength (23°C)	55	kJ/m^2	ISO 179/1fU
Thermal	**Nominal Value**	**Unit**	**Test Method**
Heat Deflection Temperature (1.8 MPa, Unannealed)	240	°C	ISO 75-2/A
Continuous Use Temperature	250	°C	UL 746B
CLTE - Flow	4.0E-5	cm/cm/°C	DIN 53752
Thermal Conductivity	0.35	W/m/K	DIN 52612
Electrical	**Nominal Value**	**Unit**	**Test Method**
Surface Resistivity	> 1.0E+12	ohms	IEC 60093
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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