# LUVOCOM® 1105/GY7993 VP

### Polyetheretherketone

#### Lehmann & Voss & Co.

#### Message:

LUVOCOM®1105/GY7993 VP is a polyetheretherketone (PEEK) 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/GY7993 VP are: flame retardant/rated flame Flame Retardant sterilizable chemical resistance Typical application areas include: textile/fiber engineering/industrial accessories Aerospace Automotive Industry medical/health care

Features   Good chemical resistance     Hydrolysis resistance   Disinfect with steam     Disinfect with steam   Disinfect with steam     Hame retardancy   Externation     Usage   Faileapplications     Application in Automobile Field   Displace applications     Application in Automobile Field   Displace applications     Application in Automobile Field   Displace applications     Application in Automobile Field   Displace     Applace applications   Sildeal Management     Applace applications   Sildeal	General Information				
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Flexural Stress 140 MPa ISO 178	Tensile Strain (Yield)	4.0	%	ISO 527-2	
	Flexural Modulus	2500	MPa	ISO 178	
Flexural Strain at Flexural Strength 5.0 % ISO 178	Flexural Stress	140	MPa	ISO 178	
	Flexural Strain at Flexural Strength	5.0	%	ISO 178	

Maximum operating temperature-Sho Term	ort 260	°C	
Insulation Resistance	> 1.0E+12	ohms	IEC 60167
Thermal	Nominal Value	Unit	Test Method
Continuous Use Temperature	250	°C	UL 746B
Flammability	Nominal Value	Unit	Test Method
Flame Rating <sup>1</sup>	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.

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