LUVOCOM® 2205-7123 VP

Polyaryletherketone

Lehmann & Voss & Co.

Message:

LUVOCOM®2205-7123 VP is a polyaryl ketone (PAEK) material, which contains a 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 2205-7123 VP are:
sterilizable
Good dimensional stability
chemical resistance
Heat resistance
Lubrication
LUVOCOM®The typical application areas of 2205-7123 VP are: medical/health care

General Information			
Filler / Reinforcement	Carbon fiber reinforced material		
Additive	PTFE lubricant		
Features	Good dimensional stability Good chemical resistance Heat resistance, high Hydrolysis resistance Lubrication Hydrolysis stability Disinfect with steam		
Uses	Medical/nursing supplies		
Appearance	Dark gray		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	1.47	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (380°C/10.0 kg)	18	g/10 min	ISO 1133
Molding Shrinkage	0.10 - 0.40	%	DIN 16901
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	13000	MPa	ISO 527-2
Tensile Stress (Break)	145	MPa	ISO 527-2
Tensile Strain (Yield)	1.8	%	ISO 527-2
Flexural Modulus	11000	MPa	ISO 178
Flexural Stress	215	MPa	ISO 178
Coefficient of Friction			
Dynamic	0.32		
Static	0.29		
Flexural Strain at Flexural Strength	2.3	%	ISO 178

Maximum operating temperature-Short Term	250	°C	
Insulation Resistance		ohms	IEC 60167
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength (23°C)	6.0	kJ/m²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	26	kJ/m²	ISO 179/1fU
Thermal	**Nominal Value**	**Unit**	**Test Method**
Continuous Use Temperature	220	°C	UL 746B
Vicat Softening Temperature	280	°C	ISO 306
Injection	**Nominal Value**	**Unit**	
Drying Temperature	150	°C	
Drying Time	3.0 - 6.0	hr	
Suggested Max Moisture	0.050	%	
Rear Temperature	360 - 370	°C	
Middle Temperature	370 - 380	°C	
Front Temperature	380 - 390	°C	
Nozzle Temperature	360 - 380	°C	
Processing (Melt) Temp	390	°C	
Mold Temperature	160 - 180	°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. The parts may be tempered at a later stage to reduce internal stresses.
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.

Recommended distributors for this material

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