LUVOCOM® 1104-8928

Polyether Ketone

Lehmann & Voss & Co.

Message:

LUVOCOM®1104-8928 is a polyether ketone (PEK) material that contains a mineral filler. This product is available in Europe.
LUVOCOM®The main features of 1104-8928 are:
Flame Retardant
anti-warping
chemical resistance
Typical application areas include:
engineering/industrial accessories
Automotive Industry

General Information			
Filler / Reinforcement	Mineral filler		
Features	Low warpage Good chemical resistance Flame retardancy		
Uses	Engineering accessories Application in Automobile Field Cam		
Appearance	Natural color		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	1.33	g/cm³	ISO 1183
Molding Shrinkage	1.0 - 1.6	%	DIN 16901
Water Absorption (23°C, 24 hr)	< 0.50	%	
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	5000	MPa	ISO 527-2
Tensile Stress (Break)	90.0	MPa	ISO 527-2
Tensile Strain (Yield)	2.3	%	ISO 527-2
Flexural Modulus	4500	MPa	ISO 178
Flexural Stress	170	MPa	ISO 178
Flexural Strain at Flexural Strength	6.8	%	ISO 178
Maximum operating temperature-Short Term	280	°C	
Insulation Resistance	> 1.0E+12	ohms	IEC 60167
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Unnotched Impact Strength (23°C)	30	kJ/m²	ISO 179/1eU
Thermal	**Nominal Value**	**Unit**	**Test Method**
Heat Deflection Temperature (1.8 MPa, Unannealed)	162	°C	ISO 75-2/A

Continuous Use Temperature	260	°C	UL 746B
Vicat Softening Temperature	300	°C	ISO 306/A
CLTE - Flow	4.7E-5	cm/cm/°C	DIN 53752
Thermal Conductivity	0.25	W/m/K	DIN 52612

Injection	Nominal Value	Unit
Drying Temperature		
Dehumidification desiccant, B	150	°C
Hot air dryer, A	140	°C
Drying Time		
Dehumidification desiccant, B	4.0 - 8.0	hr
Hot air dryer, A	4.0 - 16	hr
Suggested Max Moisture	0.050	%
Rear Temperature	370 - 390	°C
Middle Temperature	380 - 420	°C
Front Temperature	390 - 420	°C
Nozzle Temperature	390 - 420	°C
Processing (Melt) Temp	390	°C
Mold Temperature	180 - 220	°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.

Recommended distributors for this material

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