LUVOCOM® 3-7088-2

Polyamide 6

Lehmann & Voss & Co.

Message:

LUVOCOM®3-7088-2 is a polyamide 6 (nylon 6) material, which contains glass and carbon fiber reinforced materials. This product is available in North America, Africa and the Middle East, Latin America, Europe or Asia Pacific.
LUVOCOM®The main features of 3-7088-2 are:
Conductivity
Electrostatic protection
anti-warping
Good stiffness
Wear-resistant
Typical application areas include:
engineering/industrial accessories
House
textile/fiber
Automotive Industry
Handle

General Information			
UL YellowCard	E108976-572194		
Filler / Reinforcement	Glass, carbon fiber reinforced materials		
Additive	heat stabilizer		
Features	Conductivity Low warpage Rigid, good Electrostatic discharge protection Good strength Good wear resistance Thermal Stability		
Uses	Handle Textile applications Engineering accessories Roller Application in Automobile Field Shell		
Appearance	Black		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	1.28	g/cm³	ISO 1183
Molding Shrinkage	0.20 - 0.60	%	DIN 16901
Water Absorption (23°C, 24 hr)	< 1.3	%	
Mechanical	**Nominal Value**	**Unit**	**Test Method**

Tensile Modulus	12000	MPa	ISO 527-2
Tensile Stress (Break)	140	MPa	ISO 527-2
Tensile Strain (Yield)	2.0	%	ISO 527-2
Flexural Modulus	10000	MPa	ISO 178
Flexural Stress	195	MPa	ISO 178
Coefficient of Friction			
Dynamic	0.20		
Static	0.14		
Flexural Strain at Flexural Strength	2.5	%	ISO 178
Maximum operating temperature-Short Term	130	°C	
Insulation Resistance		ohms	IEC 60167
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength (23°C)	5.0	kJ/m^2	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	35	kJ/m^2	ISO 179/1eU
Thermal	**Nominal Value**	**Unit**	**Test Method**
Heat Deflection Temperature (1.8 MPa, Unannealed)	200	°C	ISO 75-2/A
Continuous Use Temperature	110	°C	UL 746B
Vicat Softening Temperature	220	°C	ISO 306/A
Electrical	**Nominal Value**	**Unit**	**Test Method**
Surface Resistivity	< 1.0E+6	ohms	IEC 60093
Injection	**Nominal Value**	**Unit**	
Drying Temperature			
A	75.0	°C	
B	105	°C	
Drying Time			
A	10 - 16	hr	
B	4.0 - 6.0	hr	
Suggested Max Moisture	0.10	%	
Rear Temperature	250 - 270	°C	
Middle Temperature	270 - 290	°C	
Front Temperature	280 - 300	°C	
Nozzle Temperature	270 - 280	°C	
Processing (Melt) Temp	270	°C	
Mold Temperature	70.0 - 110	°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 level should not exceed 0.1%, otherwise molecular degradation and surface defects (e.g. smearing) may occur. As the material absorbs water rapidly, originally sealed containers should only be opened immediately before processing. Excessively high predrying temperatures may cause discoloration.
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.
Please contact us for further information.

Recommended distributors for this material

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