

LUVOCOM® 50/TF/15/NAT

Polycarbonate
LEHVOSS Group

Message:

LUVOCOM® 50/TF/15/NAT is a polycarbonate (PC) material. This product is available in North America, Africa and the Middle East, Latin America, Europe or Asia Pacific.

LUVOCOM®The main features of 50/TF/15/NAT are:

- flame retardant/rated flame
- Good dimensional stability
- Impact resistance
- Wear-resistant
- Heat resistance

Typical application areas include:

- engineering/industrial accessories
- Electrical/electronic applications
- business/office supplies
- Sporting goods
- medical/health care

General Information			
Additive	PTFE lubricant (15%)		
Features	Good dimensional stability		
	Low friction coefficient		
	Impact resistance, good		
	Good liquidity		
	Good wear resistance		
	Heat resistance, high		
	Lubrication		
Uses	Plug		
	Gear		
	Engineering accessories		
	Switch		
	Business equipment		
	Sporting goods		
	Medical/nursing supplies		
Appearance	Natural color		
Physical	Nominal Value	Unit	Test Method
Density	1.30	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (300°C/5.0 kg)	55	g/10 min	ISO 1133
Melt Volume-Flow Rate (MVR) (300°C/5.0 kg)	50.0	cm³/10min	ISO 1133
Molding Shrinkage	0.60 - 0.80	%	DIN 16901
Water Absorption (23°C, 24 hr)	< 0.20	%	

Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2700	MPa	ISO 527-2
Tensile Stress (Break)	55.0	MPa	ISO 527-2
Tensile Strain (Yield)	5.0	%	ISO 527-2
Flexural Modulus	2200	MPa	ISO 178
Flexural Stress	75.0	MPa	ISO 178
Flexural Strain at Flexural Strength	6.5	%	ISO 178
Maximum operating temperature-Short Term	150	°C	
Insulation Resistance	> 1.0E+12	ohms	IEC 60167
Impact	Nominal Value	Unit	Test Method
Charpy Unnotched Impact Strength (23°C)	120	kJ/m ²	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Continuous Use Temperature	130	°C	UL 746B
Vicat Softening Temperature	160	°C	ISO 306/A
CLTE - Flow	7.0E-5	cm/cm/°C	DIN 53752
Thermal Conductivity	0.20	W/m/K	DIN 52612
Flammability	Nominal Value	Unit	Test Method
Flame Rating ¹	V-0		UL 94
Injection	Nominal Value	Unit	
Drying Temperature - Desiccant Dryer	120	°C	
Drying Time - Desiccant Dryer	4.0 - 6.0	hr	
Rear Temperature	280 - 300	°C	
Middle Temperature	290 - 310	°C	
Front Temperature	300 - 320	°C	
Nozzle Temperature	290 - 310	°C	
Processing (Melt) Temp	295	°C	
Mold Temperature	80 - 120	°C	
Injection instructions			
<p>General</p> <p>In general LUVOCOM® can be processed on conventional injection moulding machines while observing the usual technical guidelines.</p> <p>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.</p> <p>Lengthy dwell times for the melts in the cylinder should be avoided.</p> <p>Lower the temperatures during interruptions!</p> <p>Predrying (optional)</p> <p>It is advisable to predry the granulate with a suitable dryer immediately before processing.</p> <p>The granulate may absorb moisture from the air.</p> <p>Delivery Form & Storage</p> <p>Unless indicated otherwise, the material is delivered as 3mm-long pellets in sealed bags on pallets.</p> <p>Preferably storage should be effected in dry and normally temperatured rooms</p> <p>Additional Information</p> <p>During processing, the moisture level should not exceed 0.02%, otherwise molecular degradation may occur.</p> <p>Suitable heat treatment may increase resistance to the formation of stress cracks.</p> <p>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.</p> <p>Please contact us for further information.</p>			
NOTE			

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