

# LUVOCOM® 50/TF/15/BK

聚碳酸酯

LEHOSS Group

## Technical Data

### 产品说明

Improved friction and wear behaviour. Optimised for dry running operations. High dimensionally stable precision parts, even at elevated temperatures and narrow tolerance range. Impact resistance. Not flammable.

### 总览

添加剂	• PTFE 润滑剂: 15%	
特性	• High Dimensional Stability • 良好抗撞击性 • 低翘曲性 • 耐磨损性, 良好	• 润滑 • 阻燃性
外观	• 黑色	
形式	• 粒子	
加工方法	• 注射成型	

物理性能	额定值	单位制	测试方法
密度	1.29 g/cm <sup>3</sup>		ISO 1183
熔融体积流量 ( MVR ) (300°C/5.0 kg)	40 cm <sup>3</sup> /10min		ISO 1133
收缩率	0.60 到 0.80 %		DIN 16742
吸水率 (24 hr, 23°C)	< 0.20 %		ISO 62
机械性能	额定值	单位制	测试方法
拉伸模量	2200 MPa		ISO 527-1/1
拉伸应力	50.0 MPa		ISO 527-2/50
拉伸应变 (屈服)	5.0 %		ISO 527-2/50
弯曲模量 <sup>4</sup>	2000 MPa		ISO 178
弯曲应力 <sup>5</sup>	80.0 MPa		ISO 178
弯曲应变 - at max. force <sup>5</sup>	6.0 %		ISO 178
冲击性能	额定值	单位制	测试方法
简支梁缺口冲击强度 <sup>6</sup>			ISO 179/1eA
--	25 kJ/m <sup>2</sup>		
-30°C	15 kJ/m <sup>2</sup>		
简支梁无缺口冲击强度 <sup>6</sup>			ISO 179/1fU
--	100 kJ/m <sup>2</sup>		
-30°C	80 kJ/m <sup>2</sup>		
热性能	额定值	单位制	测试方法
载荷下热变形温度 (1.8 MPa, 未退火)	132 °C		ISO 75-2/A
连续使用温度 <sup>7</sup>	130 °C		IEC 60216
维卡软化温度	160 °C		ISO 306/A
线形热膨胀系数 - 流动 <sup>8</sup> (4.00 mm)	7.0E-5 cm/cm/°C		ISO 11359-2
Service Temperature - during lifetime max. 200 hr	150 °C		
电气性能	额定值	单位制	测试方法
Insulation Resistance <sup>9</sup>	> 1.0E+12 ohms		IEC 60167
可燃性	额定值	单位制	测试方法
UL 阻燃等级 (1.6 mm)	V-0		UL 94
注射	额定值	单位制	
干燥温度 - 热风干燥机	120 °C		

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## 注射

## 额定值 单位制

干燥时间 - 热风干燥机	4.0 到 6.0 hr
建议的最大水分含量	0.020 %
料筒后部温度	280 到 300 °C
料筒中部温度	290 到 310 °C
料筒前部温度	300 到 320 °C
射嘴温度	290 到 310 °C
加工 ( 熔体 ) 温度	295 °C
模具温度	80 到 120 °C

## 注射说明

### 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

- It is advisable to predry the granulate with a suitable dryer immediately before processing.
- The granulate may absorb moisture from the environment.

### 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 0.02%, otherwise molecular degradation may occur.
- Suitable heat treatment may increase resistance to the formation of stress cracks.
- 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.