

Lehmann & Voss LUVOCOM[®] 1850-7783 PBT, with glass fiber, PTFE, lubricant modified

Category : Polymer , Thermoplastic , Polyester, TP , Polybutylene Terephthalate (PBT) , Polybutylene Terephthalate (PBT), Glass Fiber + PTFE Filled

Material Notes:

Applications: Automotive industry, textile- and office machinery, apparatus- and precision engineering. Improved friction and wear behaviour. Emergency running property. High dimensionally stable precision parts, even at elevated temperatures and narrow tolerance range. Parts for electric and electronic industry. Coil formers, duty parts in plugs and switches, even combined with metal inserts. Information provided by Lehmann & Voss & Co. KG

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lehmann-Voss-LUVOCOM-1850-7783-PBT-with-glass-fiber-PTFE-lubricant-modified.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.69 g/cc	1.69 g/cc	ISO 1183
Water Absorption	<= 0.10 %	<= 0.10 %	23 [°] C/24h
Linear Mold Shrinkage	0.0020 - 0.0050 cm/cm	0.0020 - 0.0050 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Stress	145 MPa	21000 psi	
Elongation at Yield	2.0 %	2.0 %	
	2.6 %	2.6 %	flexural
Modulus of Elasticity	13.0 GPa	1890 ksi	
Flexural Strength	205 MPa	29700 psi	
Flexural Modulus	11.0 GPa	1600 ksi	
Charpy Impact Unnotched	4.50 J/cm ²	21.4 ft-lb/in ²	edgewise; ISO 179 1eU
Coefficient of Friction, Dynamic	0.16	0.16	
Coefficient of Friction, Static	0.15	0.15	

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	130 [°] C	266 [°] F	
	180 [°] C	356 [°] F	short term
Vicat Softening Point	215 [°] C	419 [°] F	DIN ISO 306

Electrical Properties	Metric	English	Comments
Insulation Resistance	>= 1.00e+12 ohm	>= 1.00e+12 ohm	

Processing Properties	Metric	English	Comments
Processing Temperature	250 Â°C	482 Â°F	mass temp
Nozzle Temperature	250 - 265 Â°C	482 - 509 Â°F	
Zone 1	240 - 260 Â°C	464 - 500 Â°F	
Zone 2	260 - 280 Â°C	500 - 536 Â°F	
Zone 3	250 - 270 Â°C	482 - 518 Â°F	
Mold Temperature	60.0 - 120 Â°C	140 - 248 Â°F	
Drying Temperature	80.0 Â°C @Time 21600 - 28800 sec	176 Â°F @Time 6.00 - 8.00 hour	Vacuum Dryer
	120 Â°C @Time 14400 - 21600 sec	248 Â°F @Time 4.00 - 6.00 hour	Dehumidifying dryer

Descriptive Properties	Value	Comments
Color	black	

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