

Lehmann & Voss LUVOCOM[®] 1850/GF/30/TF/15/BK PBT, with glass fiber and PTFE

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-1850GF30TF15BK-PBT-with-glass-fiber-and-PTFE.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.65 g/cc	1.65 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	130 MPa	18900 psi	
Elongation at Yield	2.7 %	2.7 %	
	3.5 %	3.5 %	flexural
Modulus of Elasticity	10.0 GPa	1450 ksi	
Flexural Strength	180 MPa	26100 psi	
Flexural Modulus	9.50 GPa	1380 ksi	
Charpy Impact Unnotched	5.00 J/cm ²	23.8 ft-lb/in ²	flatwise; ISO 179 1fU
	5.70 J/cm ²	27.1 ft-lb/in ²	ISO 179
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Charpy Impact, Notched	1.50 J/cm ²	7.14 ft-lb/in ²	ISO 179 1eA
	1.50 J/cm ²	7.14 ft-lb/in ²	ISO 179 eA
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Coefficient of Friction, Dynamic	0.20	0.20	
Coefficient of Friction, Static	0.15	0.15	

Mechanical Properties	Metric	English	Comments
CTE, linear	23.0 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	12.8 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	DIN 53752
Thermal Conductivity	0.400 W/m-K	2.78 BTU-in/hr-ft $\text{Å}^2\cdot\text{Å}^\circ\text{F}$	DIN 52612
Maximum Service Temperature, Air	130 $\text{Å}^\circ\text{C}$	266 $\text{Å}^\circ\text{F}$	
	180 $\text{Å}^\circ\text{C}$	356 $\text{Å}^\circ\text{F}$	short term
Deflection Temperature at 1.8 MPa (264 psi)	210 $\text{Å}^\circ\text{C}$	410 $\text{Å}^\circ\text{F}$	
Vicat Softening Point	210 $\text{Å}^\circ\text{C}$	410 $\text{Å}^\circ\text{F}$	DIN ISO 306

Electrical Properties	Metric	English	Comments
Insulation Resistance	$\geq 1.00\text{e}+12$ ohm	$\geq 1.00\text{e}+12$ ohm	

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

Descriptive Properties	Value	Comments
Color	black	

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