

Lehmann & Voss LUVOCOM[®] 1850/TF/30 PBT, with PTFE

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

Material Notes:

Applications: Automotive industry, textile- and office machinery, apparatus- and precision engineering. Improved friction and wear behaviour. Emergency running property. Isotropic shrinkage characteristics. Control disks, cams, sliding elements and other duty parts. Information provided by Lehmann & Voss & Co.KG

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lehmann-Voss-LUVOCOM-1850TF30-PBT-with-PTFE.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.46 g/cc	1.46 g/cc	ISO 1183
Water Absorption	<= 0.10 %	<= 0.10 %	23Â°C/24h
Linear Mold Shrinkage	0.014 - 0.020 cm/cm	0.014 - 0.020 in/in	
Melt Flow	20.44 g/10 min @Load 2.16 kg, Temperature 250 Â°C	20.44 g/10 min @Load 4.76 lb, Temperature 482 Â°F	

Mechanical Properties	Metric	English	Comments
Tensile Stress	40.0 MPa	5800 psi	
Elongation at Yield	3.5 %	3.5 %	
	5.5 %	5.5 %	flexural
Modulus of Elasticity	2.50 GPa	363 ksi	
Flexural Strength	70.0 MPa	10200 psi	
Flexural Modulus	2.00 GPa	290 ksi	
Charpy Impact Unnotched	2.00 J/cmÂ²	9.52 ft-lb/inÂ²	flatwise; ISO 179 1fU
Charpy Impact, Notched	0.500 J/cmÂ²	2.38 ft-lb/inÂ²	ISO 179 1eA
Coefficient of Friction, Dynamic	0.15	0.15	
Coefficient of Friction, Static	0.080	0.080	

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	130 Â°C	266 Â°F	
	150 Â°C	302 Â°F	short term

Vicat Softening Point Thermal Properties	165 Â°C Metric	329 Â°F English	DIN ISO 306 Comments
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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	natural color (white)	

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