

Lehmann & Voss LUVOCOM[®] 1850-7692 PBT, with glass spheres and 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-1850-7692-PBT-with-glass-spheres-and-PTFE.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.61 g/cc	1.61 g/cc	ISO 1183
Water Absorption	<= 0.10 %	<= 0.10 %	23Â°C/24h
Linear Mold Shrinkage	0.0090 - 0.018 cm/cm	0.0090 - 0.018 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Stress	35.0 MPa	5080 psi	
Elongation at Yield	3.0 %	3.0 %	
	4.0 %	4.0 %	flexural
Modulus of Elasticity	3.00 GPa	435 ksi	
Flexural Strength	50.0 MPa	7250 psi	
Flexural Modulus	2.40 GPa	348 ksi	
Charpy Impact Unnotched	2.00 J/cm ²	9.52 ft-lb/in ²	edgewise; ISO 179 1eU
Coefficient of Friction, Dynamic	0.20	0.20	
Coefficient of Friction, Static	0.15	0.15	

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	205 Â°C	401 Â°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	176 Â°F	Vacuum Dryer
	@Time 21600 - 28800 sec	@Time 6.00 - 8.00 hour	
	120 Â°C	248 Â°F	Dehumidifying dryer
	@Time 14400 - 21600 sec	@Time 4.00 - 6.00 hour	

Descriptive Properties	Value	Comments
Color	natural color (white)	

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