

Lehmann & Voss LUVOCOM® 1850/PL/15/BK 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. 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-1850PL15BK-PBT-with-PTFE.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.35 g/cc	1.35 g/cc	ISO 1183
Water Absorption	<= 0.15 %	<= 0.15 %	23Â°C/24h
Linear Mold Shrinkage	0.014 - 0.020 cm/cm	0.014 - 0.020 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Stress	45.0 MPa	6530 psi	
Elongation at Yield	10 %	10 %	
	12 %	12 %	flexural
Modulus of Elasticity	2.40 GPa	348 ksi	
Flexural Strength	80.0 MPa	11600 psi	
Flexural Modulus	2.20 GPa	319 ksi	
Charpy Impact Unnotched	3.00 J/cmÂ²	14.3 ft-lb/inÂ²	edgewise; ISO 179 1eU
Charpy Impact, Notched	0.300 J/cmÂ²	1.43 ft-lb/inÂ²	ISO 179 1eA
Coefficient of Friction, Dynamic	0.16	0.16	
Coefficient of Friction, Static	0.13	0.13	

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	130 Â°C	266 Â°F	
	150 Â°C	302 Â°F	short term
Deflection Temperature at 1.8 MPa (264 psi)	82.0 Â°C	180 Â°F	
Flammability, UL94	HB	HB	not recognized by UL

Electrical Properties	Metric	English	Comments
Insulation Resistance	$\geq 1.00 \times 10^{12}$ ohm	$\geq 1.00 \times 10^{12}$ 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	black	

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