

Lehmann & Voss LUVOCOM® 1850/CF/15/TF/10/EM PBT, with carbon fiber, PTFE, easy flowing

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

Material Notes:

Applications: Automotive industry, textile- and office machinery, apparatus- and precision engineering. Improved friction and wear behaviour. Emergency running property. Electrically conductive, suitable for continuous discharging of statically generated electricity. Strong, stiff parts. Parts for electric and electronic industry, antistatic body parts. Information provided by Lehmann & Voss & Co.KG

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lehmann-Voss-LUVOCOM-1850CF15TF10EM-PBT-with-carbon-fiber-PTFE-easy-flowing.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.43 g/cc	1.43 g/cc	ISO 1183
Water Absorption	<= 0.10 %	<= 0.10 %	23Â°C/24h
Linear Mold Shrinkage	0.0010 - 0.0040 cm/cm	0.0010 - 0.0040 in/in	
Melt Flow	50.05 g/10 min @Load 5.00 kg, Temperature 250 Â°C	50.05 g/10 min @Load 11.0 lb, Temperature 482 Â°F	

Mechanical Properties	Metric	English	Comments
Tensile Stress	125 MPa	18100 psi	
Elongation at Yield	1.8 %	1.8 %	
	2.4 %	2.4 %	flexural
Modulus of Elasticity	12.0 GPa	1740 ksi	
Flexural Strength	200 MPa	29000 psi	
Flexural Modulus	10.0 GPa	1450 ksi	
Charpy Impact Unnotched	3.20 J/cmÂ²	15.2 ft-lb/inÂ²	edgewise; ISO 179 1eU

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	130 Â°C	266 Â°F	
	180 Â°C	356 Â°F	short term

Electrical Properties	Metric	English	Comments
Surface Resistance			

Electrical Properties	≤ 1000 ohm Metric	≤ 1000 ohm English	Comments
Insulation Resistance	≤ 1000 ohm	≤ 1000 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	natural color (black)	

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