

Lehmann & Voss LUVOCOM[®] 1850-8282 PBT, with carbon fiber

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. Electrically conductive, suitable for continuous discharging of statically generated electricity. Strong, stiff parts. Resistant to aliphatic hydrocarbon, oil, grease, dilute acid and alkali, cleaning solvent and salt solution. Information provided by Lehmann & Voss & Co.KG

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lehmann-Voss-LUVOCOM-1850-8282-PBT-with-carbon-fiber.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.42 g/cc	1.42 g/cc	ISO 1183
Water Absorption	<= 0.10 %	<= 0.10 %	23Â°C/24h
Linear Mold Shrinkage	0.0020 - 0.0060 cm/cm	0.0020 - 0.0060 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Stress	130 MPa	18900 psi	
Elongation at Yield	1.8 %	1.8 %	
	2.3 %	2.3 %	flexural
Modulus of Elasticity	16.0 GPa	2320 ksi	
Flexural Strength	190 MPa	27600 psi	
Flexural Modulus	14.0 GPa	2030 ksi	
Charpy Impact Unnotched	3.50 J/cm ²	16.7 ft-lb/in ²	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
Deflection Temperature at 1.8 MPa (264 psi)	195 Â°C	383 Â°F	

Electrical Properties	Metric	English	Comments
Surface Resistance	<= 1e+05	<= 1e+05	
Insulation Resistance	<= 100000 ohm	<= 100000 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	black	

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