

Lehmann & Voss LUVOCOM[®] 1800-8449 PET, with carbon fiber

Category : Polymer , Thermoplastic , Polyester, TP , Polyethylene Terephthalate (PET)

Material Notes:

Applications: Automotive industry, textile- and office machinery, apparatus- and precision engineering. High-strength and stiff parts with low creep. Electrically conductive, suitable for continuous discharging of statically generated electricity. dynamic stress Bearings, sleeves, control disks, gear wheels, cams. Information provided by Lehmann & Voss & Co.KG

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lehmann-Voss-LUVOCOM-1800-8449-PET-with-carbon-fiber.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.44 g/cc	1.44 g/cc	ISO 1183
Water Absorption	<= 0.30 %	<= 0.30 %	23Â°C/24h
Linear Mold Shrinkage	0.0010 - 0.0040 cm/cm	0.0010 - 0.0040 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Stress	200 MPa	29000 psi	
Elongation at Yield	1.8 %	1.8 %	
	2.3 %	2.3 %	flexural
Modulus of Elasticity	24.0 GPa	3480 ksi	
Flexural Strength	290 MPa	42100 psi	
Flexural Modulus	20.0 GPa	2900 ksi	
Charpy Impact Unnotched	6.00 J/cm ²	28.6 ft-lb/in ²	edgewise; ISO 179 1eU

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	110 Â°C	230 Â°F	
	180 Â°C	356 Â°F	short term
Deflection Temperature at 1.8 MPa (264 psi)	235 Â°C	455 Â°F	

Electrical Properties	Metric	English	Comments
Surface Resistance	<= 100 ohm	<= 100 ohm	
Insulation Resistance	<= 100 ohm	<= 100 ohm	

Processing Properties	Metric	English	Comments
Processing Temperature	280 Â°C	536 Â°F	mass temp
Nozzle Temperature	265 - 275 Â°C	509 - 527 Â°F	
Zone 1	285 - 295 Â°C	545 - 563 Â°F	
Zone 2	270 - 280 Â°C	518 - 536 Â°F	
Zone 3	265 - 275 Â°C	509 - 527 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	
	120 Â°C @Time 7200 - 18000 sec	248 Â°F @Time 2.00 - 5.00 hour	Dehumidifying dryer

Descriptive Properties	Value	Comments
Color	natural color (black)	

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