

Lehmann & Voss LUVOCOM[®] TPU-7682 Thermoplastic polyurethane, with carbon fiber

Category : Polymer , Thermoplastic , Polyurethane, TP

Material Notes:

Applications: Electrically conductive, suitable for continuous discharging of statically generated electricity. Improved wear behaviour, low warpage. Bearings, sleeves, sliding elements, chair rollers, handles. Information provided by Lehmann & Voss & Co.KG

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lehmann-Voss-LUVOCOM-TPU-7682-Thermoplastic-polyurethane-with-carbon-fiber.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.32 g/cc	1.32 g/cc	ISO 1183
Water Absorption	<= 0.50 %	<= 0.50 %	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	25.0 MPa	3630 psi	
Elongation at Yield	20 %	20 %	
	27 %	27 %	flexural
Modulus of Elasticity	0.800 GPa	116 ksi	
Flexural Strength	40.0 MPa	5800 psi	
Flexural Modulus	0.700 GPa	102 ksi	

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	80.0 Â°C	176 Â°F	
	110 Â°C	230 Â°F	short term
Vicat Softening Point	70.0 Â°C	158 Â°F	DIN ISO 306

Electrical Properties	Metric	English	Comments
Insulation Resistance	<= 1.00e+6 ohm	<= 1.00e+6 ohm	

Processing Properties	Metric	English	Comments
Processing Temperature	225 Â°C	437 Â°F	mass temp
Nozzle Temperature	210 - 230 Â°C	410 - 446 Â°F	

Processing Properties	Metric	English	Comments
Zone 2	210 - 230 Â°C	410 - 446 Â°F	
Zone 3	210 - 230 Â°C	410 - 446 Â°F	
Mold Temperature	25.0 - 60.0 Â°C	77.0 - 140 Â°F	
Drying Temperature	60.0 - 90.0 Â°C @Time 7200 - 10800 sec	140 - 194 Â°F @Time 2.00 - 3.00 hour	Dehumidifying dryer
	100 - 110 Â°C @Time 7200 - 10800 sec	212 - 230 Â°F @Time 2.00 - 3.00 hour	Air-Circulation Dryer

Descriptive Properties	Value	Comments
Color	natural color (black)	

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