

Lehmann & Voss LUVOCOM[®] 3-7234-1 Polyamide 6, with carbon fiber, electrically conducting

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6, Carbon Fiber Filled

Material Notes:

Applications: Automotive industry, textile machinery, apparatus- and precision engineering.Strong, stiff parts.dynamic stressAntistatic.Handles, levers, rollers, body parts.Information provided by Lehmann & Voss & Co.KG

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lehmann-Voss-LUVOCOM-3-7234-1-Polyamide-6-with-carbon-fiber-electrically-conducting.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.21 g/cc	1.21 g/cc	ISO 1183
Water Absorption	<= 1.3 %	<= 1.3 %	23 [°] C/24h
Linear Mold Shrinkage	0.0040 - 0.0080 cm/cm	0.0040 - 0.0080 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Stress	130 MPa	18900 psi	
Elongation at Yield	3.0 %	3.0 %	
	4.0 %	4.0 %	flexural
Modulus of Elasticity	9.00 GPa	1310 ksi	
Flexural Strength	190 MPa	27600 psi	
Flexural Modulus	7.00 GPa	1020 ksi	
Charpy Impact Unnotched	4.50 J/cm ²	21.4 ft-lb/in ²	flatwise; ISO 179 1fU
Coefficient of Friction, Dynamic	0.24	0.24	
Coefficient of Friction, Static	0.21	0.21	

Thermal Properties	Metric	English	Comments
CTE, linear	25.0 μ m/m- [°] C	13.9 μ in/in- [°] F	DIN 53752
Thermal Conductivity	0.300 W/m-K	2.08 BTU-in/hr-ft ² - [°] F	DIN 52612
Maximum Service Temperature, Air	90.0 [°] C	194 [°] F	
	130 [°] C	266 [°] F	short term
Deflection Temperature at 1.8 MPa (264 psi)	200 [°] C	392 [°] F	

Thermal Properties	Metric	English	Comments
Flammability, UL94	HB	HB	

Electrical Properties	Metric	English	Comments
Surface Resistance	1000 ohm - 1e+05	1000 ohm - 1e+05	
Insulation Resistance	1000 - 100000 ohm	1000 - 100000 ohm	

Processing Properties	Metric	English	Comments
Processing Temperature	270 Â°C	518 Â°F	mass temp
Nozzle Temperature	270 - 280 Â°C	518 - 536 Â°F	
Zone 1	250 - 270 Â°C	482 - 518 Â°F	
Zone 2	270 - 290 Â°C	518 - 554 Â°F	
Zone 3	280 - 300 Â°C	536 - 572 Â°F	
Mold Temperature	70.0 - 110 Â°C	158 - 230 Â°F	
Drying Temperature	75.0 Â°C @Time 36000 - 57600 sec	167 Â°F @Time 10.0 - 16.0 hour	Dehumidifying dryer
	105 Â°C @Time 14400 - 21600 sec	221 Â°F @Time 4.00 - 6.00 hour	or

Descriptive Properties	Value	Comments
Color	black	

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