

Lehmann & Voss LUVOCOM[®] 8-7190 High impact polyamide, with carbon fiber, toughness-modified

Category : Polymer , Thermoplastic , Nylon

Material Notes:

Applications: Automotive industry, textile- and office machinery, apparatus- and precision engineering. High-strength and high-stiff parts; low coefficient of expansion. Especially suitable at dynamic stress situations. Electrically conductive, suitable for continuous discharging of statically generated electricity. Low water absorption, for dimensionally stable precision parts. Bearings, sleeves, sliding elements, handles, machine parts. Information provided by Lehmann & Voss & Co. KG

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lehmann-Voss-LUVOCOM-8-7190-High-impact-polyamide-with-carbon-fiber-toughness-modified.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.21 g/cc	1.21 g/cc	ISO 1183
Water Absorption	<= 0.15 %	<= 0.15 %	23°C/24h
Linear Mold Shrinkage	0.0010 - 0.0030 cm/cm	0.0010 - 0.0030 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Stress	195 MPa	28300 psi	
Elongation at Yield	2.3 %	2.3 %	
	2.6 %	2.6 %	flexural
Modulus of Elasticity	19.0 GPa	2760 ksi	
Flexural Strength	260 MPa	37700 psi	
Flexural Modulus	15.0 GPa	2180 ksi	
Charpy Impact Unnotched	6.00 J/cm ²	28.6 ft-lb/in ²	edgewise; ISO 179 1eU
Charpy Impact, Notched	1.30 J/cm ²	6.19 ft-lb/in ²	ISO 179 1eA

Thermal Properties	Metric	English	Comments
CTE, linear	16.0 µm/m-°C	8.89 µin/in-°F	DIN 53752
Thermal Conductivity	0.500 W/m-K	3.47 BTU-in/hr-ft ² -°F	DIN 52612
Maximum Service Temperature, Air	220 °C	428 °F	short term
Deflection Temperature at 1.8 MPa (264 psi)	242 °C	468 °F	

Electrical Properties	Metric	English	Comments
Surface Resistance	<= 100 ohm	<= 100 ohm	
Insulation Resistance	<= 1000 ohm	<= 1000 ohm	

Processing Properties	Metric	English	Comments
Processing Temperature	290 Â°C	554 Â°F	mass temp
Nozzle Temperature	280 - 295 Â°C	536 - 563 Â°F	
Zone 1	270 - 280 Â°C	518 - 536 Â°F	
Zone 2	270 - 280 Â°C	518 - 536 Â°F	
Zone 3	275 - 285 Â°C	527 - 545 Â°F	
Mold Temperature	80.0 - 90.0 Â°C	176 - 194 Â°F	
Drying Temperature	75.0 Â°C	167 Â°F	Dehumidifying dryer
	@Time 21600 - 36000 sec	@Time 6.00 - 10.0 hour	
	105 Â°C	221 Â°F	or
	@Time <=14400 sec	@Time <=4.00 hour	

Descriptive Properties	Value	Comments
Color	black	

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