

Lehmann & Voss LUVOCOM® 7/CF/30/BK Polyamide 610, with carbon fiber

Category : Polymer , Thermoplastic , Nylon , Nylon 610 , Nylon 610, Carbon Fiber Filled

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 dimensional 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-7CF30BK-Polyamide-610-with-carbon-fiber.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.23 g/cc	1.23 g/cc	ISO 1183
Water Absorption	<= 0.15 %	<= 0.15 %	23°C/24h
Linear Mold Shrinkage	0.0010 - 0.0040 cm/cm	0.0010 - 0.0040 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Stress	210 MPa	30500 psi	
Elongation at Yield	2.0 %	2.0 %	
	2.6 %	2.6 %	flexural
Modulus of Elasticity	20.0 GPa	2900 ksi	
Flexural Strength	305 MPa	44200 psi	
Flexural Modulus	16.0 GPa	2320 ksi	
Charpy Impact Unnotched	5.00 J/cm ²	23.8 ft-lb/in ²	edgewise; ISO 179 1eU
	6.00 J/cm ²	28.6 ft-lb/in ²	ISO 179
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Charpy Impact, Notched	1.40 J/cm ²	6.66 ft-lb/in ²	ISO 179 1eA
	1.00 J/cm ²	4.76 ft-lb/in ²	ISO 179 eA
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Coefficient of Friction, Dynamic	0.26	0.26	
Coefficient of Friction, Static	0.20	0.20	

Thermal Properties	Metric	English	Comments
CTE, linear	16.0 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	8.89 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	DIN 53752
Thermal Conductivity	0.500 W/m-K	3.47 BTU-in/hr-ft $\text{Å}^2\cdot\text{Å}^\circ\text{F}$	DIN 52612
Maximum Service Temperature, Air	90.0 $\text{Å}^\circ\text{C}$	194 $\text{Å}^\circ\text{F}$	
	140 $\text{Å}^\circ\text{C}$	284 $\text{Å}^\circ\text{F}$	short term
Deflection Temperature at 1.8 MPa (264 psi)	205 $\text{Å}^\circ\text{C}$	401 $\text{Å}^\circ\text{F}$	

Electrical Properties	Metric	English	Comments
Surface Resistance	$\leq 100 \text{ ohm}$	$\leq 100 \text{ ohm}$	
Insulation Resistance	$\leq 1000 \text{ ohm}$	$\leq 1000 \text{ ohm}$	

Processing Properties	Metric	English	Comments
Processing Temperature	265 $\text{Å}^\circ\text{C}$	509 $\text{Å}^\circ\text{F}$	mass temp
Nozzle Temperature	270 - 290 $\text{Å}^\circ\text{C}$	518 - 554 $\text{Å}^\circ\text{F}$	
Zone 1	240 - 270 $\text{Å}^\circ\text{C}$	464 - 518 $\text{Å}^\circ\text{F}$	
Zone 2	260 - 280 $\text{Å}^\circ\text{C}$	500 - 536 $\text{Å}^\circ\text{F}$	
Zone 3	270 - 290 $\text{Å}^\circ\text{C}$	518 - 554 $\text{Å}^\circ\text{F}$	
Mold Temperature	70.0 - 100 $\text{Å}^\circ\text{C}$	158 - 212 $\text{Å}^\circ\text{F}$	
Drying Temperature	75.0 $\text{Å}^\circ\text{C}$ @Time 21600 - 36000 sec	167 $\text{Å}^\circ\text{F}$ @Time 6.00 - 10.0 hour	Dehumidifying dryer
	105 $\text{Å}^\circ\text{C}$ @Time $\leq 14400 \text{ sec}$	221 $\text{Å}^\circ\text{F}$ @Time $\leq 4.00 \text{ hour}$	or

Descriptive Properties	Value	Comments
Color	black	

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