

Lehmann & Voss LUVOCOM[®] 1/CF/40 Polyamide 66, with carbon fiber, heat stabilized

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, 10% 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. Reduced moment of inertia compared with metal parts. Electrically conductive, suitable for continuous discharging of statically generated electricity. High dimensionally stable precision parts with low warpage and narrow tolerance range. Gear parts for automotive appliances, control disks, cams, sliding elements. Information provided by Lehmann & Voss & Co.KG

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lehmann-Voss-LUVOCOM-1CF40-Polyamide-66-with-carbon-fiber-heat-stabilized.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.33 g/cc	1.33 g/cc	ISO 1183
Water Absorption	<= 1.0 %	<= 1.0 %	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	290 MPa	42100 psi	
Elongation at Yield	1.5 %	1.5 %	
	2.2 %	2.2 %	flexural
Modulus of Elasticity	26.0 GPa	3770 ksi	
Flexural Strength	390 MPa	56600 psi	
Flexural Modulus	22.0 GPa	3190 ksi	
Charpy Impact Unnotched	4.60 J/cm ²	21.9 ft-lb/in ²	flatwise; ISO 179 1fU
	4.00 J/cm ²	19.0 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
	1.10 J/cm ²	5.23 ft-lb/in ²	ISO 179 eA
	@Temperature -30.0 [°] C	@Temperature -22.0 [°] F	
Coefficient of Friction, Dynamic	0.18	0.18	
Coefficient of Friction, Static	0.13	0.13	

Thermal Properties	Metric	English	Comments
CTE, linear	14.0 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	7.78 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	DIN 53752
Thermal Conductivity	1.40 W/m-K	9.72 BTU-in/hr-ft $\text{Å}^2\cdot\text{Å}^\circ\text{F}$	HOT-DISK 60x60x3 mm
Maximum Service Temperature, Air	120 $\text{Å}^\circ\text{C}$	248 $\text{Å}^\circ\text{F}$	
	160 $\text{Å}^\circ\text{C}$	320 $\text{Å}^\circ\text{F}$	short term
Deflection Temperature at 1.8 MPa (264 psi)	249 $\text{Å}^\circ\text{C}$	480 $\text{Å}^\circ\text{F}$	
Vicat Softening Point	255 $\text{Å}^\circ\text{C}$	491 $\text{Å}^\circ\text{F}$	DIN ISO 306
Flammability, UL94	HB	HB	

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 $\text{Å}^\circ\text{C}$	554 $\text{Å}^\circ\text{F}$	mass temp
Nozzle Temperature	280 - 300 $\text{Å}^\circ\text{C}$	536 - 572 $\text{Å}^\circ\text{F}$	
Zone 1	290 - 310 $\text{Å}^\circ\text{C}$	554 - 590 $\text{Å}^\circ\text{F}$	
Zone 2	290 - 310 $\text{Å}^\circ\text{C}$	554 - 590 $\text{Å}^\circ\text{F}$	
Zone 3	290 - 310 $\text{Å}^\circ\text{C}$	554 - 590 $\text{Å}^\circ\text{F}$	
Mold Temperature	90.0 - 120 $\text{Å}^\circ\text{C}$	194 - 248 $\text{Å}^\circ\text{F}$	
Drying Temperature	75.0 $\text{Å}^\circ\text{C}$	167 $\text{Å}^\circ\text{F}$	Dehumidifying dryer
	@Time 21600 - 57600 sec	@Time 6.00 - 16.0 hour	
	105 $\text{Å}^\circ\text{C}$	221 $\text{Å}^\circ\text{F}$	Vacuum Dryer
	@Time 14400 - 21600 sec	@Time 4.00 - 6.00 hour	

Descriptive Properties	Value	Comments
Color	natural color (black)	

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