

Lehmann & Voss LUVOCOM® 3/CF/30/EG Polyamide 6, with carbon fiber, extrusion grade

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

Material Notes:

Applications: Automotive industry, textile machinery, apparatus- and precision engineering.High-strength and stiff parts; low coefficient of expansion.dynamic stressElectrically conductive, suitable for continuous discharging of statically generated electricity.Handles, levers, rollers, extrusion profiles.Information provided by Lehmann & Voss & Co.KG

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lehmann-Voss-LUVOCOM-3CF30EG-Polyamide-6-with-carbon-fiber-extrusion-grade.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.28 g/cc	1.28 g/cc	ISO 1183
Water Absorption	<= 1.0 %	<= 1.0 %	23Â°C/24h
Linear Mold Shrinkage	0.0010 - 0.0030 cm/cm	0.0010 - 0.0030 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Stress	205 MPa	29700 psi	
Elongation at Yield	3.0 %	3.0 %	
	3.0 %	3.0 %	flexural
Modulus of Elasticity	16.0 GPa	2320 ksi	
Flexural Strength	305 MPa	44200 psi	
Flexural Modulus	15.0 GPa	2180 ksi	
Charpy Impact Unnotched	5.50 J/cmÂ²	26.2 ft-lb/inÂ²	flatwise; ISO 179 1fU
	5.00 J/cmÂ²	23.8 ft-lb/inÂ²	ISO 179
	@Temperature -30.0 Â°C	@Temperature -22.0 Â°F	
Charpy Impact, Notched	1.70 J/cmÂ²	8.09 ft-lb/inÂ²	ISO 179 1eA
	1.50 J/cmÂ²	7.14 ft-lb/inÂ²	ISO 179 eA
	@Temperature -30.0 Â°C	@Temperature -22.0 Â°F	
Coefficient of Friction, Dynamic	0.21	0.21	
Coefficient of Friction, Static	0.17	0.17	

Thermal Properties	Metric	English	Comments
CTE, linear	20.0 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	11.1 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	DIN 53752
Thermal Conductivity	0.500 W/m-K	3.47 BTU-in/hr-ftÅ²-Å°F	DIN 52612
Maximum Service Temperature, Air	90.0 $\text{Å}^\circ\text{C}$	194 $\text{Å}^\circ\text{F}$	
	210 $\text{Å}^\circ\text{C}$	410 $\text{Å}^\circ\text{F}$	short term
Deflection Temperature at 1.8 MPa (264 psi)	213 $\text{Å}^\circ\text{C}$	415 $\text{Å}^\circ\text{F}$	
Vicat Softening Point	220 $\text{Å}^\circ\text{C}$	428 $\text{Å}^\circ\text{F}$	DIN ISO 306

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

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

Descriptive Properties	Value	Comments
Color	natural color (black)	

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China