

Lehmann & Voss LUVOCOM® 1/GF/30/TF/15/HS-B Polyamide 66, with glass fiber and PTFE, heat stabilized

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, Glass Fiber/PTFE Filled

Material Notes:

Applications: Automotive industry, textile- and office machinery, apparatus- and precision engineering. Improved friction and wear behaviour. Emergency running property. Heat stabilised. High dimensionally stable precision parts with low warpage and narrow tolerance range. Bearings, sleeves, sliding elements, control disks, gear wheels, duty parts in switches. Information provided by Lehmann & Voss & Co.KG

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lehmann-Voss-LUVOCOM-1GF30TF15HS-B-Polyamide-66-with-glass-fiber-and-PTFE-heat-stabilized.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.49 g/cc	1.49 g/cc	ISO 1183
Water Absorption	<= 1.0 %	<= 1.0 %	23Â°C/24h
Linear Mold Shrinkage	0.0020 - 0.0050 cm/cm	0.0020 - 0.0050 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Stress	170 MPa	24700 psi	
Elongation at Yield	3.0 %	3.0 %	
	3.6 %	3.6 %	flexural
Modulus of Elasticity	10.0 GPa	1450 ksi	
Flexural Strength	230 MPa	33400 psi	
Flexural Modulus	8.00 GPa	1160 ksi	
Charpy Impact Unnotched	5.50 J/cmÂ²	26.2 ft-lb/inÂ²	flatwise; ISO 179 1fU
	6.00 J/cmÂ²	28.6 ft-lb/inÂ²	
	@Temperature -30.0 Â°C	@Temperature -22.0 Â°F	ISO 179
Charpy Impact, Notched	1.40 J/cmÂ²	6.66 ft-lb/inÂ²	ISO 179 1eA
Coefficient of Friction, Dynamic	0.23	0.23	
Coefficient of Friction, Static	0.18	0.18	

Thermal Properties	Metric	English	Comments
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CTE linear Thermal Properties	25.0 Åum/m-Å°C Metric	13.9 Åuin/in-Å°F English	DIN 53752 Comments
Thermal Conductivity	0.240 W/m-K	1.67 BTU-in/hr-ftÅ²-Å°F	DIN 52612
Maximum Service Temperature, Air	120 Å°C	248 Å°F	
	160 Å°C	320 Å°F	short term
Deflection Temperature at 1.8 MPa (264 psi)	245 Å°C	473 Å°F	
Vicat Softening Point	250 Å°C	482 Å°F	DIN ISO 306

Electrical Properties	Metric	English	Comments
Surface Resistance	>= 1.00e+12 ohm	>= 1.00e+12 ohm	
Insulation Resistance	>= 1.00e+12 ohm	>= 1.00e+12 ohm	

Processing Properties	Metric	English	Comments
Processing Temperature	290 Å°C	554 Å°F	mass temp
Nozzle Temperature	280 - 300 Å°C	536 - 572 Å°F	
Zone 1	290 - 310 Å°C	554 - 590 Å°F	
Zone 2	290 - 310 Å°C	554 - 590 Å°F	
Zone 3	290 - 310 Å°C	554 - 590 Å°F	
Mold Temperature	90.0 - 120 Å°C	194 - 248 Å°F	
Drying Temperature	75.0 Å°C @Time 21600 - 57600 sec	167 Å°F @Time 6.00 - 16.0 hour	Dehumidifying dryer
	105 Å°C @Time 14400 - 21600 sec	221 Å°F @Time 4.00 - 6.00 hour	Vacuum Dryer

Descriptive Properties	Value	Comments
Color	natural color (beige)	

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