

Lehmann & Voss LUVOCOM[®] PA66/TF/40 Polyamide 66, with PTFE

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, PTFE Filled

Material Notes:

Applications: Automotive industry, textile- and office machinery, apparatus- and precision engineering. Improved friction and wear behaviour. Emergency running property. Isotropic shrinkage characteristics. 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-PA66TF40-Polyamide-66-with-PTFE.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.43 g/cc	1.43 g/cc	ISO 1183
Water Absorption	<= 1.0 %	<= 1.0 %	23Â°C/24h
Linear Mold Shrinkage	0.015 - 0.025 cm/cm	0.015 - 0.025 in/in	
Melt Flow	<= 14.3 g/10 min @Load 2.16 kg, Temperature 300 Â°C	<= 14.3 g/10 min @Load 4.76 lb, Temperature 572 Â°F	

Mechanical Properties	Metric	English	Comments
Tensile Stress	89.0 MPa	12900 psi	
Elongation at Yield	5.5 %	5.5 %	
	7.0 %	7.0 %	flexural
Modulus of Elasticity	2.40 GPa	348 ksi	
Flexural Strength	125 MPa	18100 psi	
Flexural Modulus	2.00 GPa	290 ksi	
Charpy Impact Unnotched	6.00 J/cmÂ²	28.6 ft-lb/inÂ²	flatwise; ISO 179 1fU
	6.30 J/cmÂ² @Temperature -30.0 Â°C	30.0 ft-lb/inÂ² @Temperature -22.0 Â°F	ISO 179
Charpy Impact, Notched	0.400 J/cmÂ²	1.90 ft-lb/inÂ²	ISO 179 1eA
	0.400 J/cmÂ² @Temperature -30.0 Â°C	1.90 ft-lb/inÂ² @Temperature -22.0 Â°F	ISO 179 eA
Coefficient of Friction, Dynamic	0.070	0.070	

Coefficient of Friction, Static Mechanical Properties	0.060 Metric	0.060 English	Comments
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Thermal Properties	Metric	English	Comments
CTE, linear	80.0 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	44.4 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	DIN 53752
Thermal Conductivity	0.240 W/m-K	1.67 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 $\text{Å}^\circ\text{F}$	
	130 $\text{Å}^\circ\text{C}$	266 $\text{Å}^\circ\text{F}$	short term
Deflection Temperature at 1.8 MPa (264 psi)	72.0 $\text{Å}^\circ\text{C}$	162 $\text{Å}^\circ\text{F}$	
Vicat Softening Point	200 $\text{Å}^\circ\text{C}$	392 $\text{Å}^\circ\text{F}$	DIN ISO 306

Electrical Properties	Metric	English	Comments
Surface Resistance	$\geq 1.00\text{e}+10$ ohm	$\geq 1.00\text{e}+10$ ohm	
Insulation Resistance	$\geq 1.00\text{e}+11$ ohm	$\geq 1.00\text{e}+11$ 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 $\text{Å}^\circ\text{C}$ @Time 21600 - 57600 sec	167 $\text{Å}^\circ\text{F}$ @Time 6.00 - 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	Vacuum Dryer

Descriptive Properties	Value	Comments
Color	natural color (white)	

Contact Songhan Plastic Technology Co.,Ltd.

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