

Lehmann & Voss LUVOCOM® 7-0755 Polyamide 610, with glass fiber and PTFE

Category : Polymer , Thermoplastic , Nylon , Nylon 610 , Nylon 610, Glass Reinforced

Material Notes:

Applications: Automotive industry, textile- and office machinery, apparatus- and precision engineering. High-strength and stiff parts; low coefficient of expansion. Improved friction and wear behaviour. Emergency running property. Reduced water absorption. High dimensionally 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-7-0755-Polyamide-610-with-glass-fiber-and-PTFE.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.41 g/cc	1.41 g/cc	ISO 1183
Water Absorption	<= 0.15 %	<= 0.15 %	23Â°C/24h
Linear Mold Shrinkage	0.0020 - 0.0040 cm/cm	0.0020 - 0.0040 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Stress	200 MPa	29000 psi	
Elongation at Yield	3.5 %	3.5 %	
	4.0 %	4.0 %	flexural
Modulus of Elasticity	11.0 GPa	1600 ksi	
Flexural Strength	290 MPa	42100 psi	
Flexural Modulus	9.00 GPa	1310 ksi	
Charpy Impact Unnotched	10.0 J/cmÂ²	47.6 ft-lb/inÂ²	edgewise; ISO 179 1eU
	8.50 J/cmÂ²	40.4 ft-lb/inÂ²	ISO 179
	@Temperature -30.0 Â°C	@Temperature -22.0 Â°F	
Coefficient of Friction, Dynamic	0.35	0.35	
Coefficient of Friction, Static	0.25	0.25	

Thermal Properties	Metric	English	Comments
CTE, linear	40.0 Âµm/m-Â°C	22.2 Âµin/in-Â°F	DIN 53752
Thermal Conductivity	0.300 W/m-K	2.08 BTU-in/hr-ftÂ²- Â°F	DIN 52612

Maximum Service Temperature, Air Thermal Properties	90.0 Â°C Metric	194 Â°F English	Comments
	140 Â°C	284 Â°F	short term
Deflection Temperature at 1.8 MPa (264 psi)	210 Â°C	410 Â°F	

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

Processing Properties	Metric	English	Comments
Processing Temperature	265 Â°C	509 Â°F	mass temp
Nozzle Temperature	270 - 290 Â°C	518 - 554 Â°F	
Zone 1	240 - 270 Â°C	464 - 518 Â°F	
Zone 2	260 - 280 Â°C	500 - 536 Â°F	
Zone 3	270 - 290 Â°C	518 - 554 Â°F	
Mold Temperature	70.0 - 100 Â°C	158 - 212 Â°F	
Drying Temperature	75.0 Â°C @Time 21600 - 36000 sec	167 Â°F @Time 6.00 - 10.0 hour	Dehumidifying dryer
	105 Â°C @Time <=14400 sec	221 Â°F @Time <=4.00 hour	or

Descriptive Properties	Value	Comments
Color	natural color (beige)	

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