

Lehmann & Voss LUVOCOM® 6-7833 Polyamide 12, with PTFE, lubricant modified

Category : Polymer , Thermoplastic , Nylon , Nylon 12 , Nylon 12, PTFE Filled

Material Notes:

Applications: Automotive industry, textile- and office machinery, apparatus- and precision engineering. Dynamic stressed parts. Low water absorption, for dimensionally stable precision parts. Isotropic shrinkage characteristics. 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-6-7833-Polyamide-12-with-PTFE-lubricant-modified.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.14 g/cc	1.14 g/cc	ISO 1183
Water Absorption	<= 0.10 %	<= 0.10 %	23Â°C/24h
Linear Mold Shrinkage	0.0070 - 0.010 cm/cm	0.0070 - 0.010 in/in	
Melt Flow	<= 11.4 g/10 min @Load 5.00 kg, Temperature 235 Â°C	<= 11.4 g/10 min @Load 11.0 lb, Temperature 455 Â°F	

Mechanical Properties	Metric	English	Comments
Tensile Stress	45.0 MPa	6530 psi	
Elongation at Yield	6.0 %	6.0 %	
	8.0 %	8.0 %	flexural
Modulus of Elasticity	2.30 GPa	334 ksi	
Flexural Strength	75.0 MPa	10900 psi	
Flexural Modulus	2.00 GPa	290 ksi	
Charpy Impact Unnotched	14.0 J/cmÂ²	66.6 ft-lb/inÂ²	edgewise; ISO 179 1eU

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	90.0 Â°C	194 Â°F	
	140 Â°C	284 Â°F	short term

Electrical Properties	Metric	English	Comments
Surface Resistance	>= 1.00e+9 ohm	>= 1.00e+9 ohm	

Insulation Resistance Electrical Properties	$\geq 1.00e+9$ ohm Metric	$\geq 1.00e+9$ ohm English	Comments
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Processing Properties	Metric	English	Comments
Processing Temperature	250 Å°C	482 Å°F	mass temp
Nozzle Temperature	250 - 260 Å°C	482 - 500 Å°F	
Zone 1	230 - 250 Å°C	446 - 482 Å°F	
Zone 2	240 - 260 Å°C	464 - 500 Å°F	
Zone 3	250 - 270 Å°C	482 - 518 Å°F	
Mold Temperature	70.0 - 110 Å°C	158 - 230 Å°F	
Drying Temperature	75.0 Å°C @Time 21600 - 36000 sec	167 Å°F @Time 6.00 - 10.0 hour	Dehumidifying dryer
	105 Å°C @Time <=14400 sec	221 Å°F @Time <=4.00 hour	or

Descriptive Properties	Value	Comments
Color	natural color (black)	

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