

Lehmann & Voss LUVOCOM[®] 19-8250 Polyamide 46, lubricant modified

Category : Polymer , Thermoplastic , Nylon , Nylon 46

Material Notes:

Applications: Automotive industry, textile- and office machinery, apparatus- and precision engineering.Reduced moment of inertia compared with metal parts.Highly dimensionally stable at elevated temperatures.Gear parts for automotive appliances, control disks, cams, sliding elements.Information provided by Lehmann & Voss & Co.KG

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lehmann-Voss-LUVOCOM-19-8250-Polyamide-46-lubricant-modified.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.47 g/cc	1.47 g/cc	ISO 1183
Water Absorption	<= 1.0 %	<= 1.0 %	23Â°C/24h
Linear Mold Shrinkage	0.010 - 0.015 cm/cm	0.010 - 0.015 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Stress	90.0 MPa	13100 psi	
Elongation at Yield	2.5 %	2.5 %	
	3.5 %	3.5 %	flexural
Modulus of Elasticity	5.00 GPa	725 ksi	
Flexural Strength	125 MPa	18100 psi	
Flexural Modulus	4.20 GPa	609 ksi	
Charpy Impact Unnotched	3.50 J/cm ^Â 2	16.7 ft-lb/in ^Â 2	edgewise; ISO 179 1eU
Charpy Impact, Notched	0.400 J/cm ^Â 2	1.90 ft-lb/in ^Â 2	ISO 179 1eA

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	150 Â°C	302 Â°F	
	160 Â°C	320 Â°F	short term

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

Processing Properties	Metric	English	Comments
Processing Temperature	310 Â°C	590 Â°F	mass temp

Processing Properties	Metric	English	Comments
Zone 1	285 - 315 Â°C	545 - 599 Â°F	
Zone 2	305 - 315 Â°C	581 - 599 Â°F	
Zone 3	305 - 315 Â°C	581 - 599 Â°F	
Mold Temperature	120 - 140 Â°C	248 - 284 Â°F	
Drying Temperature	80.0 Â°C @Time 7200 - 43200 sec	176 Â°F @Time 2.00 - 12.0 hour	Vacuum Dryer
	80.0 Â°C @Time 7200 - 28800 sec	176 Â°F @Time 2.00 - 8.00 hour	Dehumidifying dryer

Descriptive Properties	Value	Comments
Color	dark grey	

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