

Lehmann & Voss LUVOTECH® GS 46 Polyamide 46, lubricant modified, heat stabilized

Category : Polymer , Thermoplastic , Nylon , Nylon 46

Material Notes:

Applications: Automotive industry, textile- and office machinery, apparatus- and precision engineering. Emergency running property. Isotropic shrinkage characteristics. Highly dimensionally stable at elevated temperatures. Information provided by Lehmann & Voss & Co.KG

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lehmann-Voss-LUVOTECH-GS-46-Polyamide-46-lubricant-modified-heat-stabilized.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.19 g/cc	1.19 g/cc	ISO 1183
Water Absorption	<= 1.5 %	<= 1.5 %	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	100 MPa	14500 psi	
Elongation at Yield	5.0 %	5.0 %	
Modulus of Elasticity	3.90 GPa	566 ksi	
Charpy Impact Unnotched	9.00 J/cmÂ²	42.8 ft-lb/inÂ²	flatwise; ISO 179 1fU
Charpy Impact, Notched	1.20 J/cmÂ²	5.71 ft-lb/inÂ²	ISO 179 1eA
Coefficient of Friction, Dynamic	0.31	0.31	
Coefficient of Friction, Static	0.23	0.23	

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	150 Â°C	302 Â°F	
	160 Â°C	320 Â°F	short term
Deflection Temperature at 1.8 MPa (264 psi)	160 Â°C	320 Â°F	
Vicat Softening Point	280 Â°C	536 Â°F	DIN ISO 306

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	umbra grey	

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