

Lehmann & Voss LUVOCOM[®] 100-7846 Thermoplastic polyurethane, with aramid reinforcement

Category : Polymer , Thermoplastic , Polyurethane, TP

Material Notes:

Applications: Improved friction and wear behaviour. Emergency running property. dynamic stress Bearings, sleeves, sliding elements, chair rollers, handles. Information provided by Lehmann & Voss & Co.KG

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lehmann-Voss-LUVOCOM-100-7846-Thermoplastic-polyurethane-with-aramid-reinforcement.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.22 g/cc	1.22 g/cc	ISO 1183
Water Absorption	<= 0.30 %	<= 0.30 %	23 [°] C/24h
Linear Mold Shrinkage	0.015 - 0.020 cm/cm	0.015 - 0.020 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Stress	25.0 MPa	3630 psi	
Elongation at Yield	650 %	650 %	
Modulus of Elasticity	0.0500 GPa	7.25 ksi	
Charpy Impact, Notched	2.30 J/cm ²	10.9 ft-lb/in ²	ISO 179 1eA

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	90.0 [°] C	194 [°] F	
	110 [°] C	230 [°] F	short term

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

Processing Properties	Metric	English	Comments
Processing Temperature	225 [°] C	437 [°] F	mass temp
Nozzle Temperature	210 - 230 [°] C	410 - 446 [°] F	
Zone 1	210 - 230 [°] C	410 - 446 [°] F	
Zone 2	210 - 230 [°] C	410 - 446 [°] F	

Processing Properties	Metric	English	Comments
Mold Temperature	25.0 - 60.0 Â°C	77.0 - 140 Â°F	
Drying Temperature	60.0 - 90.0 Â°C @Time 7200 - 10800 sec	140 - 194 Â°F @Time 2.00 - 3.00 hour	Dehumidifying dryer
	100 - 110 Â°C @Time 7200 - 10800 sec	212 - 230 Â°F @Time 2.00 - 3.00 hour	Air-Circulation Dryer

Descriptive Properties	Value	Comments
Color	natural color (yellow)	

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