

Lehmann & Voss LUVOCOM[®] 1/GF/30/TF/15/SI/2-2 Polyamide 66, with glass fiber, PTFE, lubricant modified, heat stabilized

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, Glass Fiber/PTFE Filled

Material Notes:

Applications: Automotive industry, textile- and office machinery, apparatus- and precision engineering. Improved friction and wear behaviour. Emergency running property. High dimensionally stable precision parts, even at elevated temperatures and narrow tolerance range. Bearings, sleeves, sliding elements, control disks, gear wheels, duty parts in switches. Information provided by Lehmann & Voss & Co.KG

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lehmann-Voss-LUVOCOM-1GF30TF15SI2-2-Polyamide-66-with-glass-fiber-PTFE-lubricant-modified-heat-stabilized.php

| Physical Properties | Metric | English | Comments |
|-----------------------|-----------------------|-----------------------|-----------------------|
| Specific Gravity | 1.48 g/cc | 1.48 g/cc | ISO 1183 |
| Water Absorption | <= 1.0 % | <= 1.0 % | 23 [°] C/24h |
| Linear Mold Shrinkage | 0.0020 - 0.0050 cm/cm | 0.0020 - 0.0050 in/in | |

| Mechanical Properties | Metric | English | Comments |
|----------------------------------|-----------------------------------|-----------------------------------|-----------------------|
| Tensile Stress | 180 MPa | 26100 psi | |
| Elongation at Yield | 3.5 % | 3.5 % | |
| | 4.2 % | 4.2 % | flexural |
| Modulus of Elasticity | 9.50 GPa | 1380 ksi | |
| Flexural Strength | 250 MPa | 36300 psi | |
| Flexural Modulus | 8.00 GPa | 1160 ksi | |
| Charpy Impact Unnotched | 5.00 J/cm ² | 23.8 ft-lb/in ² | flatwise; ISO 179 1fU |
| | 4.20 J/cm ² | 20.0 ft-lb/in ² | ISO 179 |
| | @Temperature -30.0 [°] C | @Temperature -22.0 [°] F | |
| Charpy Impact, Notched | 1.20 J/cm ² | 5.71 ft-lb/in ² | ISO 179 1eA |
| Coefficient of Friction, Dynamic | 0.14 | 0.14 | |
| Coefficient of Friction, Static | 0.12 | 0.12 | |

| Thermal Properties | Metric | English | Comments |
|--------------------|--------|---------|----------|
|--------------------|--------|---------|----------|

| CTE linear Thermal Properties | 25.0 Åum/m-Å°C Metric | 13.9 Åuin/in-Å°F English | DIN 53752 Comments |
|----------------------------------|--------------------------|-----------------------------|-----------------------|
| Thermal Conductivity | 0.240 W/m-K | 1.67 BTU-in/hr-ftÅ²- Å°F | DIN 52612 |
| Maximum Service Temperature, Air | 110 Å°C | 230 Å°F | |
| | 160 Å°C | 320 Å°F | short term |
| Vicat Softening Point | 250 Å°C | 482 Å°F | DIN ISO 306 |

| 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 | 290 Å°C | 554 Å°F | mass temp |
| Nozzle Temperature | 280 - 300 Å°C | 536 - 572 Å°F | |
| Zone 1 | 290 - 310 Å°C | 554 - 590 Å°F | |
| Zone 2 | 290 - 310 Å°C | 554 - 590 Å°F | |
| Zone 3 | 290 - 310 Å°C | 554 - 590 Å°F | |
| Mold Temperature | 90.0 - 120 Å°C | 194 - 248 Å°F | |
| Drying Temperature | 75.0 Å°C @Time 21600 - 57600 sec | 167 Å°F @Time 6.00 - 16.0 hour | Dehumidifying dryer |
| | 105 Å°C @Time 14400 - 21600 sec | 221 Å°F @Time 4.00 - 6.00 hour | Vacuum Dryer |

| Descriptive Properties | Value | Comments |
|------------------------|-----------------------|----------|
| Color | natural color (beige) | |

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