

Lehmann & Voss LUVOCOM® 1301-8524 PPS, linear, with glass fiber and PTFE

Category : Polymer , Thermoplastic , Polyphenylene Sulfide (PPS) , Polyphenylene Sulfide (PPS) with 10% Glass Fiber Filler

Material Notes:

Applications: Automotive industry, textile-and office machinery, medical- and precision engineering.High continuous use and heat distortion temperature. Non flammable.High-strength and stiff parts with low creep.Improved friction and wear behaviour. Emergency running property.High chemical resistance parts.Control disks, gear wheels, pump impellers, gear parts for automotive appliances, chip carrier.Information provided by Lehmann & Voss & Co.KG

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lehmann-Voss-LUVOCOM-1301-8524-PPS-linear-with-glass-fiber-and-PTFE.php

| Physical Properties | Metric | English | Comments |
|-----------------------|-----------------------|-----------------------|-----------|
| Specific Gravity | 1.67 g/cc | 1.67 g/cc | ISO 1183 |
| Water Absorption | <= 0.050 % | <= 0.050 % | 23Â°C/24h |
| Linear Mold Shrinkage | 0.0020 - 0.0040 cm/cm | 0.0020 - 0.0040 in/in | |

| Mechanical Properties | Metric | English | Comments |
|----------------------------------|--------------|-----------------|-----------------------|
| Tensile Stress | 115 MPa | 16700 psi | |
| Elongation at Yield | 1.4 % | 1.4 % | |
| | 2.0 % | 2.0 % | flexural |
| Modulus of Elasticity | 13.0 GPa | 1890 ksi | |
| Flexural Strength | 175 MPa | 25400 psi | |
| Flexural Modulus | 11.0 GPa | 1600 ksi | |
| Charpy Impact Unnotched | 1.30 J/cmÂ² | 6.19 ft-lb/inÂ² | flatwise; ISO 179 1fU |
| Charpy Impact, Notched | 0.800 J/cmÂ² | 3.81 ft-lb/inÂ² | ISO 179 1eA |
| Coefficient of Friction, Dynamic | 0.20 | 0.20 | |
| Coefficient of Friction, Static | 0.15 | 0.15 | |

| Thermal Properties | Metric | English | Comments |
|----------------------------------|----------------|-------------------------|-----------|
| CTE, linear | 25.0 Âµm/m-Â°C | 13.9 Âµin/in-Â°F | DIN 53752 |
| Thermal Conductivity | 0.400 W/m-K | 2.78 BTU-in/hr-ftÂ²-Â°F | DIN 52612 |
| Maximum Service Temperature, Air | 220 Â°C | 428 Â°F | |

| Thermal Properties | Metric | English | Comments |
|---|---------|---------|----------------------|
| Deflection Temperature at 1.8 MPa (264 psi) | 250 Â°C | 482 Â°F | |
| Vicat Softening Point | 240 Â°C | 464 Â°F | DIN ISO 306 |
| Flammability, UL94 | V-0 | V-0 | not recognized by UL |

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

| Processing Properties | Metric | English | Comments |
|------------------------|------------------------|------------------------|---------------------|
| Processing Temperature | 330 Â°C | 626 Â°F | mass temp |
| Nozzle Temperature | 320 - 340 Â°C | 608 - 644 Â°F | |
| Zone 1 | 300 - 320 Â°C | 572 - 608 Â°F | |
| Zone 2 | 310 - 330 Â°C | 590 - 626 Â°F | |
| Zone 3 | 320 - 340 Â°C | 608 - 644 Â°F | |
| Mold Temperature | 150 - 180 Â°C | 302 - 356 Â°F | |
| Drying Temperature | 50.0 - 90.0 Â°C | 122 - 194 Â°F | |
| | @Time >=14400 sec | @Time >=4.00 hour | |
| | 100 - 140 Â°C | 212 - 284 Â°F | Dehumidifying dryer |
| | @Time 7200 - 14400 sec | @Time 2.00 - 4.00 hour | |

| Descriptive Properties | Value | Comments |
|------------------------|-------|----------|
| Color | black | |

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