

Lehmann & Voss LUVOCOM[®] 1105-8174 PEEK, with PTFE, lubricant modified

Category : Polymer , Thermoplastic , Polyketone , Polyetheretherketone (PEEK) , Polyetheretherketone, PEEK, PTFE-Filled

Material Notes:

Applications: Automotive industry, textile machinery, medical- and precision engineering, aircraft industry. Chemical and hydrolysis resistance parts, non flammable. Improved friction and wear behaviour. Emergency running property. Low warpage, isotropic shrinkage characteristics. Information provided by Lehmann & Voss & Co.KG

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lehmann-Voss-LUVOCOM-1105-8174-PEEK-with-PTFE-lubricant-modified.php

| Physical Properties | Metric | English | Comments |
|-----------------------|--|--|-----------|
| Specific Gravity | 1.46 g/cc | 1.46 g/cc | ISO 1183 |
| Water Absorption | <= 0.10 % | <= 0.10 % | 23Â°C/24h |
| Linear Mold Shrinkage | 0.0090 - 0.015 cm/cm | 0.0090 - 0.015 in/in | |
| Melt Flow | 21.9 g/10 min @Load 10.0 kg, Temperature 380 Â°C | 21.9 g/10 min @Load 22.0 lb, Temperature 716 Â°F | |

| Mechanical Properties | Metric | English | Comments |
|-------------------------|-------------|-----------------|-----------------------|
| Tensile Stress | 85.0 MPa | 12300 psi | |
| Elongation at Yield | 3.5 % | 3.5 % | |
| | 4.7 % | 4.7 % | flexural |
| Modulus of Elasticity | 4.00 GPa | 580 ksi | |
| Flexural Strength | 125 MPa | 18100 psi | |
| Flexural Modulus | 3.50 GPa | 508 ksi | |
| Charpy Impact Unnotched | 4.00 J/cmÂ² | 19.0 ft-lb/inÂ² | edgewise; ISO 179 1eU |

| Thermal Properties | Metric | English | Comments |
|----------------------------------|---------|---------|----------------------|
| Maximum Service Temperature, Air | 250 Â°C | 482 Â°F | |
| | 260 Â°C | 500 Â°F | short term |
| Flammability, UL94 | V-0 | V-0 | not recognized by UL |

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

| Electrical Properties | Metric | English | Comments |
|-----------------------|--------|---------|----------|
|-----------------------|--------|---------|----------|

| Processing Properties | Metric | English | Comments |
|------------------------|-------------------------|------------------------|---------------------|
| Processing Temperature | 390 Â°C | 734 Â°F | mass temp |
| Nozzle Temperature | 360 - 380 Â°C | 680 - 716 Â°F | |
| Zone 1 | 360 - 370 Â°C | 680 - 698 Â°F | |
| Zone 2 | 380 - 390 Â°C | 716 - 734 Â°F | |
| Zone 3 | 390 - 400 Â°C | 734 - 752 Â°F | |
| Mold Temperature | 170 - 200 Â°C | 338 - 392 Â°F | |
| Drying Temperature | 120 Â°C | 248 Â°F | or |
| | @Time 21600 - 28800 sec | @Time 6.00 - 8.00 hour | |
| | 150 Â°C | 302 Â°F | Dehumidifying dryer |
| | @Time 10800 - 21600 sec | @Time 3.00 - 6.00 hour | |

| Descriptive Properties | Value | Comments |
|------------------------|-----------|----------|
| Color | dark grey | |

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