

Lehmann & Voss LUVOCOM[®] 1105-8205 PEEK, with carbon fiber, lubricant modified

Category : Polymer , Thermoplastic , Polyketone , Polyetheretherketone (PEEK) , Polyetheretherketone, PEEK, Carbon Fiber Filled

Material Notes:

Applications: Automotive industry, textile machinery, medical- and precision engineering, aircraft industry. High-strength and high-stiff parts; low coefficient of expansion. Improved friction and wear behaviour. Emergency running property. Electrically conductive, suitable for continuous discharging of statically generated electricity. Information provided by Lehmann & Voss & Co. KG

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lehmann-Voss-LUVOCOM-1105-8205-PEEK-with-carbon-fiber-lubricant-modified.php

| Physical Properties | Metric | English | Comments |
|-----------------------|---|---|-----------|
| Specific Gravity | 1.52 g/cc | 1.52 g/cc | ISO 1183 |
| Water Absorption | <= 0.10 % | <= 0.10 % | 23Â°C/24h |
| Linear Mold Shrinkage | 0.0010 - 0.0040 cm/cm | 0.0010 - 0.0040 in/in | |
| Melt Flow | <= 15.2 g/10 min @Load 10.0 kg, Temperature 380 Â°C | <= 15.2 g/10 min @Load 22.0 lb, Temperature 716 Â°F | |

| Mechanical Properties | Metric | English | Comments |
|-------------------------|--------------|-----------------|-----------------------|
| Tensile Stress | 210 MPa | 30500 psi | |
| Elongation at Yield | 1.3 % | 1.3 % | |
| | 1.6 % | 1.6 % | flexural |
| Modulus of Elasticity | 27.0 GPa | 3920 ksi | |
| Flexural Strength | 300 MPa | 43500 psi | |
| Flexural Modulus | 23.0 GPa | 3340 ksi | |
| Charpy Impact Unnotched | 4.00 J/cmÂ² | 19.0 ft-lb/inÂ² | edgewise; ISO 179 1eU |
| Charpy Impact, Notched | 0.900 J/cmÂ² | 4.28 ft-lb/inÂ² | ISO 179 1eA |

| Thermal Properties | Metric | English | Comments |
|---|---------|---------|------------|
| Maximum Service Temperature, Air | 250 Â°C | 482 Â°F | |
| | 280 Â°C | 536 Â°F | short term |
| Deflection Temperature at 1.8 MPa (264 psi) | 255 Â°C | 491 Â°F | |

| Vicat Softening Point Thermal Properties | 310 Â°C Metric | 590 Â°F English | DIN ISO 306 Comments |
|---|-------------------|--------------------|-------------------------|
| Flammability, UL94 | V-0 | V-0 | not recognized by UL |

| Electrical Properties | Metric | English | Comments |
|-----------------------|---------------|---------------|----------|
| Surface Resistance | <= 10000 ohm | <= 10000 ohm | |
| Insulation Resistance | <= 100000 ohm | <= 100000 ohm | |

| 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 @Time 21600 - 28800 sec | 248 Â°F @Time 6.00 - 8.00 hour | or |
| | 150 Â°C @Time 10800 - 21600 sec | 302 Â°F @Time 3.00 - 6.00 hour | Dehumidifying dryer |

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

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