

Lehmann & Voss LUVOCOM[®] 1105-0895/BL PEEK, with glass fiber

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

Material Notes:

Applications: Automotive industry, textile machinery, medical- and precision engineering, aircraft industry.Strong, stiff parts.Chemical and hydrolysis resistance parts, non flammable.High dimensionally stable precision parts, high continuous use temperature.Information provided by Lehmann & Voss & Co.KG

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lehmann-Voss-LUVOCOM-1105-0895BL-PEEK-with-glass-fiber.php

| Physical Properties | Metric | English | Comments |
|-----------------------|-----------------------|-----------------------|-----------|
| Specific Gravity | 1.60 g/cc | 1.60 g/cc | ISO 1183 |
| Water Absorption | <= 0.10 % | <= 0.10 % | 23Â°C/24h |
| Linear Mold Shrinkage | 0.0020 - 0.0050 cm/cm | 0.0020 - 0.0050 in/in | |

| Mechanical Properties | Metric | English | Comments |
|-------------------------|------------------------|----------------------------|-----------------------|
| Tensile Stress | 145 MPa | 21000 psi | |
| Elongation at Yield | 2.5 % | 2.5 % | |
| | 3.0 % | 3.0 % | flexural |
| Modulus of Elasticity | 11.0 GPa | 1600 ksi | |
| Flexural Strength | 210 MPa | 30500 psi | |
| Flexural Modulus | 9.00 GPa | 1310 ksi | |
| Charpy Impact Unnotched | 4.50 J/cm ² | 21.4 ft-lb/in ² | flatwise; ISO 179 1fU |

| Thermal Properties | Metric | English | Comments |
|---------------------------------------------|----------------|-------------------------------------|----------------------|
| CTE, linear | 22.0 Âµm/m-Â°C | 12.2 Âµin/in-Â°F | DIN 53752 |
| Thermal Conductivity | 0.400 W/m-K | 2.78 BTU-in/hr-ft ² -Â°F | DIN 52612 |
| 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) | 315 Â°C | 599 Â°F | |
| Flammability, UL94 | V-0 | V-0 | not recognized by UL |

| Electrical Properties | Metric | English | Comments |
|-----------------------|--------------------------------|--------------------------------|----------|
| Surface Resistance | $\geq 1.00 \times 10^{12}$ ohm | $\geq 1.00 \times 10^{12}$ ohm | |
| Insulation Resistance | $\geq 1.00 \times 10^{12}$ ohm | $\geq 1.00 \times 10^{12}$ 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 | 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 | brilliant blue | |

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