

Lehmann & Voss LUVOCOM[®] 1105/GF/30/TF/15 PEEK, with glass fiber and PTFE

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

Material Notes:

Applications: Automotive industry, textile machinery, medical- and precision engineering, aircraft industry. Dynamic stressed parts at high movement velocity. Chemical and hydrolysis resistance parts, non flammable. Improved friction and wear behaviour, self-lubricating, for highest tribologic needs. High dimensionally stable precision parts, high continuous use temperature. Bearings, sleeves, control disks, gear wheels, pump impellers, gear parts. Information provided by Lehmann & Voss & Co.KG

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lehmann-Voss-LUVOCOM-1105GF30TF15-PEEK-with-glass-fiber-and-PTFE.php

| Physical Properties | Metric | English | Comments |
|-----------------------|-----------------------|-----------------------|-----------------------|
| Specific Gravity | 1.63 g/cc | 1.63 g/cc | ISO 1183 |
| Water Absorption | <= 0.10 % | <= 0.10 % | 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 | 145 MPa | 21000 psi | |
| Elongation at Yield | 2.0 % | 2.0 % | |
| | 3.0 % | 3.0 % | flexural |
| Modulus of Elasticity | 10.0 GPa | 1450 ksi | |
| Flexural Strength | 160 MPa | 23200 psi | |
| Flexural Modulus | 8.00 GPa | 1160 ksi | |
| Charpy Impact Unnotched | 2.50 J/cm ² | 11.9 ft-lb/in ² | flatwise; ISO 179 1fU |
| | 2.00 J/cm ² | 9.52 ft-lb/in ² | ISO 179 |
| | @Temperature -30.0 [°] C | @Temperature -22.0 [°] F | |
| Coefficient of Friction, Dynamic | 0.28 | 0.28 | |
| Coefficient of Friction, Static | 0.25 | 0.25 | |

| Thermal Properties | Metric | English | Comments |
|--------------------|--------------------------------|----------------------------------|-----------|
| CTE, linear | 22.0 μ m/m- [°] C | 12.2 μ in/in- [°] F | DIN 53752 |
| | 0.400 W/m-K | 2.78 BTU-in/hr-ft ² - | |

| Thermal Properties | Metric | English | Comments |
|---|--------|---------|----------------------|
| Maximum Service Temperature, Air | 250 °C | 482 °F | |
| | 280 °C | 536 °F | short term |
| Deflection Temperature at 1.8 MPa (264 psi) | 315 °C | 599 °F | |
| Vicat Softening Point | 315 °C | 599 °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 | 390 °C | 734 °F | mass temp |
| Nozzle Temperature | 360 - 380 °C | 680 - 716 °F | |
| Zone 1 | 360 - 370 °C | 680 - 698 °F | |
| Zone 2 | 380 - 390 °C | 716 - 734 °F | |
| Zone 3 | 390 - 400 °C | 734 - 752 °F | |
| Mold Temperature | 170 - 200 °C | 338 - 392 °F | |
| Drying Temperature | 120 °C @Time 21600 - 28800 sec | 248 °F @Time 6.00 - 8.00 hour | or |
| | 150 °C @Time 10800 - 21600 sec | 302 °F @Time 3.00 - 6.00 hour | Dehumidifying dryer |

| Descriptive Properties | Value | Comments |
|------------------------|---------------|----------|
| Color | natural color | |

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