

Lehmann & Voss LUVOCOM® 1105-7107/BK PEEK, with glass fiber, easy flowing

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

Material Notes:

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

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lehmann-Voss-LUVOCOM-1105-7107BK-PEEK-with-glass-fiber-easy-flowing.php

| Physical Properties | Metric | English | Comments |
|-----------------------|---|---|----------|
| Specific Gravity | 1.41 g/cc | 1.41 g/cc | ISO 1183 |
| Water Absorption | <= 0.10 % | <= 0.10 % | 23°C/24h |
| Linear Mold Shrinkage | 0.0050 - 0.010 cm/cm | 0.0050 - 0.010 in/in | |
| Melt Flow | 58 g/10 min @Load 10.0 kg, Temperature 380 °C | 58 g/10 min @Load 22.0 lb, Temperature 716 °F | |

| Mechanical Properties | Metric | English | Comments |
|-------------------------|-------------------------|----------------------------|-----------------------|
| Tensile Stress | 115 MPa | 16700 psi | |
| Elongation at Yield | 2.0 % | 2.0 % | |
| | 2.5 % | 2.5 % | flexural |
| Modulus of Elasticity | 7.00 GPa | 1020 ksi | |
| Flexural Strength | 150 MPa | 21800 psi | |
| Flexural Modulus | 6.50 GPa | 943 ksi | |
| Charpy Impact Unnotched | 3.50 J/cm ² | 16.7 ft-lb/in ² | flatwise; ISO 179 1fU |
| Charpy Impact, Notched | 0.600 J/cm ² | 2.86 ft-lb/in ² | ISO 179 1eA |

| Thermal Properties | Metric | English | Comments |
|----------------------------------|--------------|----------------|----------------------|
| CTE, linear | 30.0 µm/m-°C | 16.7 µin/in-°F | DIN 53752 |
| Maximum Service Temperature, Air | 250 °C | 482 °F | |
| | 260 °C | 500 °F | short term |
| Flammability, UL94 | V-0 | V-0 | not recognized by UL |

| Electrical Properties | Metric | English | Comments |
|-----------------------|-----------------|-----------------|----------|
| Surface Resistance | >= 1.00e+15 ohm | >= 1.00e+15 ohm | |
| Insulation Resistance | >= 1.00e+16 ohm | >= 1.00e+16 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 | black | |

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