

## Lehmann & Voss LUVOCOM<sup>®</sup> 1105/GF/30/NAT-2 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-1105GF30NAT-2-PEEK-with-glass-fiber.php](http://www.lookpolymers.com/polymer_Lehmann-Voss-LUVOCOM-1105GF30NAT-2-PEEK-with-glass-fiber.php)

| Physical Properties   | Metric                | English               | Comments              |
|-----------------------|-----------------------|-----------------------|-----------------------|
| Specific Gravity      | 1.49 g/cc             | 1.49 g/cc             | ISO 1183              |
| Water Absorption      | <= 0.10 %             | <= 0.10 %             | 23 <sup>°</sup> C/24h |
| Linear Mold Shrinkage | 0.0020 - 0.0050 cm/cm | 0.0020 - 0.0050 in/in |                       |

| Mechanical Properties            | Metric                            | English                           | Comments              |
|----------------------------------|-----------------------------------|-----------------------------------|-----------------------|
| Tensile Stress                   | 175 MPa                           | 25400 psi                         |                       |
| Elongation at Yield              | 2.5 %                             | 2.5 %                             |                       |
|                                  | 3.0 %                             | 3.0 %                             | flexural              |
| Modulus of Elasticity            | 11.0 GPa                          | 1600 ksi                          |                       |
| Flexural Strength                | 260 MPa                           | 37700 psi                         |                       |
| Flexural Modulus                 | 9.00 GPa                          | 1310 ksi                          |                       |
| Charpy Impact Unnotched          | 6.00 J/cm <sup>2</sup>            | 28.6 ft-lb/in <sup>2</sup>        | flatwise; ISO 179 1fU |
|                                  | 5.50 J/cm <sup>2</sup>            | 26.2 ft-lb/in <sup>2</sup>        | ISO 179               |
|                                  | @Temperature -30.0 <sup>°</sup> C | @Temperature -22.0 <sup>°</sup> F |                       |
| Charpy Impact, Notched           | 1.20 J/cm <sup>2</sup>            | 5.71 ft-lb/in <sup>2</sup>        | ISO 179 1eA           |
|                                  | 1.00 J/cm <sup>2</sup>            | 4.76 ft-lb/in <sup>2</sup>        | ISO 179 eA            |
|                                  | @Temperature -30.0 <sup>°</sup> C | @Temperature -22.0 <sup>°</sup> F |                       |
| Coefficient of Friction, Dynamic | 0.31                              | 0.31                              |                       |
| Coefficient of Friction, Static  | 0.28                              | 0.28                              |                       |

| Thermal Properties | Metric | English | Comments |
|--------------------|--------|---------|----------|
|--------------------|--------|---------|----------|

| CTE linear<br>Thermal Properties            | 22.0 Åum/m-Å°C<br>Metric | 12.2 Åuin/in-Å°F<br>English | DIN 53753<br>Comments |
|---|--------------------------|-----------------------------|-----------------------|
| Thermal Conductivity                        | 0.400 W/m-K              | 2.78 BTU-in/hr-ftÅ²-Å°F     | DIN 52612             |
| Maximum Service Temperature, Air            | 250 Å°C                  | 482 Å°F                     |                       |
|   | 280 Å°C                  | 536 Å°F                     | short term            |
| Deflection Temperature at 1.8 MPa (264 psi) | 315 Å°C                  | 599 Å°F                     |                       |
| Vicat Softening Point                       | 325 Å°C                  | 617 Å°F                     | DIN ISO 306           |
| 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 |          |
| Insulation Resistance | >= 1.00e+12 ohm | >= 1.00e+12 ohm |          |

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

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

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