

Lehmann & Voss LUVOCOM® 20-7094 Polyphthalamide, with carbon fiber and PTFE

Category : Polymer , Thermoplastic , Polyphthalamide (PPA) , Polyphthalamide (PPA), Carbon Fiber + PTFE Filled

Material Notes:

Applications: Automotive industry, textile- and office machinery, apparatus- and precision engineering. High-strength and high-stiff parts; low coefficient of expansion. Low influence from moisture and temperature to measures and electrical properties, compared with PA66. Suitable for metal inserts. Improved friction and wear behaviour. Emergency running property. Bearings, sleeves, sliding elements, control disks, gear wheels, duty parts in switches. Information provided by Lehmann & Voss & Co. KG

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lehmann-Voss-LUVOCOM-20-7094-Polyphthalamide-with-carbon-fiber-and-PTFE.php

| Physical Properties | Metric | English | Comments |
|-----------------------|------------------------|------------------------|----------|
| Specific Gravity | 1.44 g/cc | 1.44 g/cc | ISO 1183 |
| Water Absorption | <= 0.30 % | <= 0.30 % | 23°C/24h |
| Linear Mold Shrinkage | 0.00050 - 0.0030 cm/cm | 0.00050 - 0.0030 in/in | |

| Mechanical Properties | Metric | English | Comments |
|-------------------------|-------------------------|----------------------------|-----------------------|
| Tensile Stress | 270 MPa | 39200 psi | |
| Elongation at Yield | 1.5 % | 1.5 % | |
| | 1.9 % | 1.9 % | flexural |
| Modulus of Elasticity | 25.0 GPa | 3630 ksi | |
| Flexural Strength | 385 MPa | 55800 psi | |
| Flexural Modulus | 21.0 GPa | 3050 ksi | |
| Charpy Impact Unnotched | 5.50 J/cm ² | 26.2 ft-lb/in ² | edgewise; ISO 179 1eU |
| Charpy Impact, Notched | 0.800 J/cm ² | 3.81 ft-lb/in ² | ISO 179 1eA |

| Thermal Properties | Metric | English | Comments |
|---|--------|---------|------------|
| Maximum Service Temperature, Air | 165 °C | 329 °F | |
| | 195 °C | 383 °F | short term |
| Deflection Temperature at 1.8 MPa (264 psi) | 275 °C | 527 °F | |

| Electrical Properties | Metric | English | Comments |
|-----------------------|--------|---------|----------|
|-----------------------|--------|---------|----------|

| Electrical Properties [®] | Metric | English | Comments |
|------------------------------------|--------|---------|----------|
|------------------------------------|--------|---------|----------|

| Processing Properties | Metric | English | Comments |
|------------------------|------------------------------------|-----------------------------------|---------------------|
| Processing Temperature | 330 Â°C | 626 Â°F | mass temp |
| Nozzle Temperature | 320 - 330 Â°C | 608 - 626 Â°F | |
| Zone 1 | 320 - 340 Â°C | 608 - 644 Â°F | |
| Zone 2 | 320 - 345 Â°C | 608 - 653 Â°F | |
| Zone 3 | 325 - 350 Â°C | 617 - 662 Â°F | |
| Mold Temperature | 135 - 160 Â°C | 275 - 320 Â°F | |
| Drying Temperature | 80.0 Â°C @Time 57600 sec | 176 Â°F @Time 16.0 hour | Dehumidifying dryer |
| | 105 Â°C @Time 14400 - 18000 sec | 221 Â°F @Time 4.00 - 5.00 hour | Vacuum Dryer |

| Descriptive Properties | Value | Comments |
|------------------------|-------|----------|
| Color | black | |

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