

Lehmann & Voss LUVOCOM[®] 80-7489 Polyacetal-copolymer, with carbon fiber

Category : Polymer , Thermoplastic , Acetal (POM) , Acetal Copolymer, Carbon Fiber Filled

Material Notes:

Applications: Automotive industry, textile- and office machinery, apparatus- and precision engineering. Strong, stiff parts; low thermal coefficient of expansion. Electrically conductive, suitable for continuous discharging of statically generated electricity. High dimensionally stable precision parts. Transporting equipment for electrically sensible goods. No change of electric potential at bearings in case of separation of charge caused by transport and guiding of paper and foil. No mass temperature above 215[°]C! Ventilation of machinery is recommended. Information provided by Lehmann & Voss & Co.KG

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lehmann-Voss-LUVOCOM-80-7489-Polyacetal-copolymer-with-carbon-fiber.php

| Physical Properties | Metric | English | Comments |
|-----------------------|---|---|-----------------------|
| Specific Gravity | 1.47 g/cc | 1.47 g/cc | ISO 1183 |
| Water Absorption | <= 0.10 % | <= 0.10 % | 23 [°] C/24h |
| Linear Mold Shrinkage | 0.0030 - 0.0080 cm/cm | 0.0030 - 0.0080 in/in | |
| Melt Flow | 8.82 g/10 min @Load 2.16 kg, Temperature 190 [°] C | 8.82 g/10 min @Load 4.76 lb, Temperature 374 [°] F | |

| Mechanical Properties | Metric | English | Comments |
|-------------------------|------------------------|----------------------------|-----------------------|
| Tensile Stress | 120 MPa | 17400 psi | |
| Elongation at Yield | 1.8 % | 1.8 % | |
| | 2.4 % | 2.4 % | flexural |
| Modulus of Elasticity | 14.0 GPa | 2030 ksi | |
| Flexural Strength | 175 MPa | 25400 psi | |
| Flexural Modulus | 12.0 GPa | 1740 ksi | |
| Charpy Impact Unnotched | 2.00 J/cm ² | 9.52 ft-lb/in ² | flatwise; ISO 179 1fU |

| Thermal Properties | Metric | English | Comments |
|----------------------------------|--------------------|--------------------|------------|
| Maximum Service Temperature, Air | 100 [°] C | 212 [°] F | |
| | 120 [°] C | 248 [°] F | short term |

| Electrical Properties | Metric | English | Comments |
|-----------------------|-------------|-------------|----------|
| Surface Resistance | <= 1000 ohm | <= 1000 ohm | |
| Insulation Resistance | <= 100 ohm | <= 100 ohm | |

| Processing Properties | Metric | English | Comments |
|------------------------|---------------------------------------|-----------------------------------|-----------------------|
| Processing Temperature | 200 Â°C | 392 Â°F | mass temp |
| Nozzle Temperature | 175 - 200 Â°C | 347 - 392 Â°F | |
| Zone 1 | 175 - 190 Â°C | 347 - 374 Â°F | |
| Zone 2 | 185 - 205 Â°C | 365 - 401 Â°F | |
| Zone 3 | 180 - 200 Â°C | 356 - 392 Â°F | |
| Mold Temperature | 80.0 - 120 Â°C | 176 - 248 Â°F | |
| Drying Temperature | 75.0 Â°C @Time 7200 - 28800 sec | 167 Â°F @Time 2.00 - 8.00 hour | Dehumidifying dryer |
| | 120 Â°C @Time 7200 - 14400 sec | 248 Â°F @Time 2.00 - 4.00 hour | Air-Circulation Dryer |

| Descriptive Properties | Value | Comments |
|------------------------|-----------------------|----------|
| Color | natural color (black) | |

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