

Lehmann & Voss LUVOCOM[®] 1850/CF/10/GF/10/BK PBT, with carbon fiber and glass fiber

Category : Polymer , Thermoplastic , Polyester, TP , Polybutylene Terephthalate (PBT) , Polybutylene Terephthalate (PBT), Carbon Fiber Filled

Material Notes:

Applications: Automotive industry, textile- and office machinery, apparatus- and precision engineering. Electrically conductive, suitable for continuous discharging of statically generated electricity. Resistant to aliphatic hydrocarbon, oil, grease, dilute acid and alkali, cleaning solvent and salt solution. Strong, stiff parts; impact resistance. Information provided by Lehmann & Voss & Co.KG

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lehmann-Voss-LUVOCOM-1850CF10GF10BK-PBT-with-carbon-fiber-and-glass-fiber.php

| Physical Properties | Metric | English | Comments |
|-----------------------|--|--|-----------|
| Specific Gravity | 1.40 g/cc | 1.40 g/cc | ISO 1183 |
| Water Absorption | <= 0.10 % | <= 0.10 % | 23Â°C/24h |
| Linear Mold Shrinkage | 0.0030 - 0.0080 cm/cm | 0.0030 - 0.0080 in/in | |
| Melt Flow | 18 g/10 min @Load 2.16 kg, Temperature 250 Â°C | 18 g/10 min @Load 4.76 lb, Temperature 482 Â°F | |

| Mechanical Properties | Metric | English | Comments |
|----------------------------------|-------------|-----------------|-----------------------|
| Tensile Stress | 139 MPa | 20200 psi | |
| Elongation at Yield | 2.9 % | 2.9 % | |
| | 3.5 % | 3.5 % | flexural |
| Modulus of Elasticity | 9.60 GPa | 1390 ksi | |
| Flexural Strength | 195 MPa | 28300 psi | |
| Flexural Modulus | 8.00 GPa | 1160 ksi | |
| Charpy Impact Unnotched | 4.40 J/cmÂ² | 20.9 ft-lb/inÂ² | edgewise; ISO 179 1eU |
| Coefficient of Friction, Dynamic | 0.23 | 0.23 | |
| Coefficient of Friction, Static | 0.18 | 0.18 | |

| Thermal Properties | Metric | English | Comments |
|----------------------------------|---------|---------|-------------|
| Maximum Service Temperature, Air | 130 Â°C | 266 Â°F | |
| | 160 Â°C | 320 Â°F | short term |
| Vicat Softening Point | 215 Â°C | 419 Â°F | DIN ISO 306 |

| Thermal Properties | Metric | English | Comments |
|-----------------------|---------------|---------------|----------|
| Electrical Properties | Metric | English | Comments |
| Surface Resistance | <= 1e+05 | <= 1e+05 | |
| Insulation Resistance | <= 100000 ohm | <= 100000 ohm | |

| Processing Properties | Metric | English | Comments |
|------------------------|--|-----------------------------------|---------------------|
| Processing Temperature | 250 Â°C | 482 Â°F | mass temp |
| Nozzle Temperature | 250 - 265 Â°C | 482 - 509 Â°F | |
| Zone 1 | 240 - 260 Â°C | 464 - 500 Â°F | |
| Zone 2 | 260 - 280 Â°C | 500 - 536 Â°F | |
| Zone 3 | 250 - 270 Â°C | 482 - 518 Â°F | |
| Mold Temperature | 60.0 - 120 Â°C | 140 - 248 Â°F | |
| Drying Temperature | 80.0 Â°C @Time 21600 - 28800 sec | 176 Â°F @Time 6.00 - 8.00 hour | Vacuum Dryer |
| | 120 Â°C @Time 14400 - 21600 sec | 248 Â°F @Time 4.00 - 6.00 hour | Dehumidifying dryer |

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

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China