

## Lehmann & Voss LUVOCOM<sup>®</sup> 80/TF/18/GY Polyacetal-copolymer, with PTFE

Category : Polymer , Thermoplastic , Acetal (POM) , Acetal Copolymer, PTFE Filled

### Material Notes:

Applications: Automotive industry, textile- and office machinery, apparatus- and precision engineering. Improved friction and wear behaviour. Emergency running property. Emergency running property, glide mating with low sliding friction. Bearings, sleeves, control disks, gear wheels, cams. No mass temperature above 215<sup>°</sup>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-80TF18GY-Polyacetal-copolymer-with-PTFE.php](http://www.lookpolymers.com/polymer_Lehmann-Voss-LUVOCOM-80TF18GY-Polyacetal-copolymer-with-PTFE.php)

| Physical Properties   | Metric              | English             | Comments              |
|-----------------------|---------------------|---------------------|-----------------------|
| Specific Gravity      | 1.51 g/cc           | 1.51 g/cc           | ISO 1183              |
| Water Absorption      | 0.15 %              | 0.15 %              | 23 <sup>°</sup> C/24h |
| Linear Mold Shrinkage | 0.016 - 0.022 cm/cm | 0.016 - 0.022 in/in |                       |

| Mechanical Properties            | Metric                  | English                    | Comments              |
|----------------------------------|-------------------------|----------------------------|-----------------------|
| Tensile Stress                   | 46.0 MPa                | 6670 psi                   |                       |
| Elongation at Yield              | 7.0 %                   | 7.0 %                      |                       |
|                                  | 9.0 %                   | 9.0 %                      | flexural              |
| Modulus of Elasticity            | 2.50 GPa                | 363 ksi                    |                       |
| Flexural Strength                | 65.0 MPa                | 9430 psi                   |                       |
| Flexural Modulus                 | 2.20 GPa                | 319 ksi                    |                       |
| Charpy Impact Unnotched          | 4.00 J/cm <sup>2</sup>  | 19.0 ft-lb/in <sup>2</sup> | edgewise; ISO 179 1eU |
| Charpy Impact, Notched           | 0.400 J/cm <sup>2</sup> | 1.90 ft-lb/in <sup>2</sup> | ISO 179 1eA           |
| Coefficient of Friction, Dynamic | 0.16                    | 0.16                       |                       |
| Coefficient of Friction, Static  | 0.090                   | 0.090                      |                       |

| Thermal Properties                          | Metric              | English            | Comments   |
|---|---------------------|--------------------|------------|
| Maximum Service Temperature, Air            | 100 <sup>°</sup> C  | 212 <sup>°</sup> F |            |
|   | 120 <sup>°</sup> C  | 248 <sup>°</sup> F | short term |
| Deflection Temperature at 1.8 MPa (264 psi) | 85.0 <sup>°</sup> C | 185 <sup>°</sup> F |            |

| Vicat Softening Point<br>Thermal Properties | 145 Â°C<br>Metric | 293 Â°F<br>English | DIN ISO 306<br>Comments |
|---|-------------------|--------------------|-------------------------|
|---|-------------------|--------------------|-------------------------|

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

|                       |                 |                 |  |
|-----------------------|-----------------|-----------------|--|
| Insulation Resistance | >= 1.00e+12 ohm | >= 1.00e+12 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               | 167 Â°F                | Dehumidifying dryer |
|                    | @Time 7200 - 28800 sec | @Time 2.00 - 8.00 hour |                     |

|  |                        |                        |                       |
|--|------------------------|------------------------|-----------------------|
|  | 120 Â°C                | 248 Â°F                | Air-Circulation Dryer |
|  | @Time 7200 - 14400 sec | @Time 2.00 - 4.00 hour |                       |

| Descriptive Properties | Value | Comments |
|------------------------|-------|----------|
|------------------------|-------|----------|

|       |           |  |
|-------|-----------|--|
| Color | dust grey |  |
|-------|-----------|--|

## Contact Songhan Plastic Technology Co.,Ltd.

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