

# Tribocomp<sup>®</sup> PA66 LGF30 PTFE12 N6 polyamide 66

Tribocomp® PA66 LGF30 PTFE12 N6 is a 30% long glass fiber reinforced, high-flow PA66 containing 12% PTFE and having excellent tribological performance. It can easily be processed on most injection molding machines.

| eight<br>Strength<br>ons |
|--------------------------|
| Strength                 |
|                          |
| ons                      |
|                          |
|                          |
|                          |
|                          |
|                          |
| Test method              |
| ISO 1183                 |
| ISO 294-4                |
| ISO 62                   |
| Test method              |
| ISO 527-1                |
|                          |
|                          |
| ISO 527-2                |
|                          |
|                          |
| ISO 527-2                |
| ISO 178                  |
| 130 170                  |
| ISO 178                  |
|                          |

| Impact                                     | Dry     | Conditioned Unit | Test method |
|--|---------|------------------|-------------|
| Charpy Notched Impact Strength<br>(23°C)   | 22      | kJ/m²            | ISO 179     |
| Charpy Unnotched Impact Strength<br>(23°C) | 75      | kJ/m²            | ISO 179     |
| Thermal                                    | Dry     | Conditioned Unit | Test method |
| Deflection Temperature Under Load          |         |                  |             |
| 0.45 MPa, Unannealed                       | 262     | °C               | ISO 75-2/B  |
| 1.8 MPa, Unannealed                        | 253     | °C               | ISO 75-2/A  |
| Thermal Conductivity                       | 0.29    | W/m/K            | ISO 22007   |
| Coefficient of Linear Thermal<br>Expansion | 2.9E-5  | cm/cm/ºC         | ISO 11359-2 |
| Electrical                                 | Dry     | Conditioned Unit | Test method |
| Electric Strength (2.00 mm)                | 35      | kV/mm            | IEC 60243-1 |
| Comparative Tracking Index                 | 500     | V                | IEC 60112   |
| Surface Resistivity                        | 1.0E+12 | ohms/sq          | ASTM D257   |

#### Additional Information

Dry

The value listed as Molding Shrinkage ISO 294-4 was tested in accordance with S.O.P. methods.

| Injection              | Dry Unit      |  |
|------------------------|---------------|--|
| Drying Temperature     | 80 to 100 °C  |  |
| Drying Time            | 4.0 hr        |  |
| Suggested Max Moisture | 0.10 %        |  |
| Rear Temperature       | 290 to 300 °C |  |
| Middle Temperature     | 300 °C        |  |
| Front Temperature      | 300 °C        |  |
| Nozzle Temperature     | 300 °C        |  |
| Processing (Melt) Temp | < 300 °C      |  |
| Mold Temperature       | 80 to 120 °C  |  |

#### Injection Notes

Pre-drying -- Since polyamides are hygroscopic materials as well as sensitive to moisture during processing, this product should always be pre-dried.

Regrind -- Regrind of highly filled thermoplastic materials, such as this material, should only be recycled with special care. The regrind content must never exceed 15%, and only regrind of optimum quality should be used. In any case, part properties should be checked.

### Notes

Typical properties: these are not to be construed as specifications.

## www.syensqo.com

Safety Data Sheets (SDS) are available by emailing us or contacting your sales representative. Always consult the appropriate SDS before using any of our products.

Neither Syensqo nor any of its affiliates makes any warranty, express or implied, including merchantability or fitness for use, or accepts any liability in connection with this product, related information or its use. Some applications of which Syensqo's products may be proposed to be used are regulated or restricted by applicable laws and regulations or by national or international standards and in some cases by Syensqo's recommendation, including applications of food/feed, water treatment, medical, pharmaceuticals, and personal care. Only products designated as part of the Solviva® family of biomaterials may be considered as candidates for use in implantable medical devices. The user alone must finally determine suitability of any information or products for any contemplated use in compliance with applicable law, the manner of use and whether any patents are infinged. The information and the products are for use by technically skilled persons at their own discretion and risk and does not relate to the use of this product in combination with any other substance or any other process. This is not a license under any patent or other proprietary right.

All trademarks and registered trademarks are property of the companies that comprise the Syensqo or their respective owners.

© 2024 2023 Syensqo. All rights reserved.

