

## ALCOM POM 770/1 PTFE1,5

(Last update: 18.09.2019)

### MOCOM

|                        |                                                      |
|------------------------|------------------------------------------------------|
| Base Polymer           | Polyoxymethylene Copolymer                           |
| Filler/Additive System | 1,5 % PTFE                                           |
| Special Features       | improved sliding / wear                              |
| Market Segment         | Automotive, Machinery                                |
| Application Area       | gear wheels, roller bearings                         |
| Typical Applications   | functional components, bearings and sliding elements |

|                               |                                                                                                                                                 |
|-------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|
| Pre-Drying Conditions         | in a dry air (dessiccant) dryer 100-110 °C<br>for 2-3 h<br>in an air circulating dryer 100-110 °C<br>for 3-5 h<br>dependant on moisture content |
| Processing Injection Moulding | melt temperature 180-220 °C<br>mould temperature 60-100 °C                                                                                      |
| Storage                       | dry, protected from light                                                                                                                       |

| Properties                             | Value     | Dimension              | Test Norm   |
|----------------------------------------|-----------|------------------------|-------------|
| <b>Mechanical Properties</b>           |           |                        |             |
| Flexural Modulus                       | 2400      | MPa                    | ISO 178     |
| Flexural Stress (3.5% Strain)          | 65        | MPa                    | ISO 178     |
| Tensile Modulus                        | 2200      | MPa                    | ISO 527     |
| Tensile Elongation at Break            | 25        | %                      | ISO 527     |
| Impact Strength (Charpy, 23°C)         | 249       | kJ/m <sup>2</sup>      | ISO 179/1eU |
| Notched Impact Strength (Charpy, 23°C) | 7         | kJ/m <sup>2</sup>      | ISO 179/1eA |
| <b>Thermal Properties</b>              |           |                        |             |
| Vicat B50                              | 148       | °C                     | ISO 306     |
| HDT / A (1,8 MPa)                      | 92        | °C                     | ISO 75-1/-2 |
| DSC (Melt Point)                       | 170       | °C                     | ISO 11357   |
| <b>Rheological Properties</b>          |           |                        |             |
| Melt Index (MVR)                       | 3         | cm <sup>3</sup> /10min | ISO 1133    |
| MVR temperature                        | 190       | °C                     | -           |
| MVR load                               | 2.16      | kg                     | -           |
| Shrinkage (lengthwise, 24h)            | 1.6 - 2   | %                      | ISO 294-4   |
| Shrinkage (lateral, 24h)               | 1.9 - 2.3 | %                      | ISO 294-4   |
| <b>Physical Properties</b>             |           |                        |             |
| Density                                | 1400      | kg/m <sup>3</sup>      | ISO 1183    |

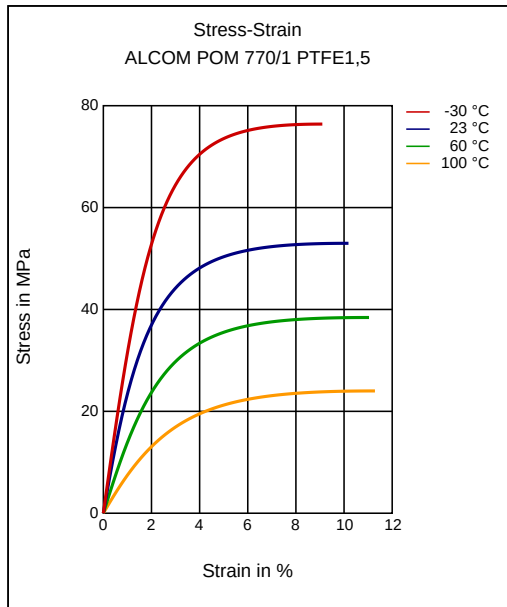
## ALCOM POM 770/1 PTFE1,5

(Last update: 18.09.2019)

## MOCOM

### Diagrams

#### Stress-Strain



#### Liability Exclusion

These are guide values and not a specification. The test values mentioned are representative values only and not binding minimum or maximum figures. These test values have been determined on standardised test specimens and can be affected by pigmentation, mould design and processing conditions.

Any information given on the chemical and physical characteristics of our products, including, without limitation, technical advice on applications, whether verbally, in writing or by testing the product, is given to the best of our knowledge and in good faith and does not exempt the buyer from carrying out their own investigations and tests in order to ascertain the product's specific suitability for the purpose intended.

The buyer is solely responsible for confirming the suitability of the product for a particular application, its utilization and processing and must observe any applicable laws and government regulations. **NO EXPRESS OR IMPLIED RECOMMENDATION OR WARRANTY IS GIVEN WITH REGARD TO THE SUITABILITY OF THE PRODUCT FOR A PARTICULAR APPLICATION, SUCH AS, BUT NOT LIMITED TO, SAFETY-CRITICAL COMPONENTS OR SYSTEMS.**

**Healthcare uses:** the supply of any product by ALBIS for any medical, pharmaceutical or diagnostic application is conditional to an assessment by ALBIS in terms of compliance with ALBIS' internal risk management policy – even for products which are in general designated for use in Healthcare applications.

**Important:** irrespective of product type or designation, ALBIS does not recommend or support the use of any products it supplies which fall into the following medical, pharmaceutical or diagnostic application categories:

- risk class III applications according to EU directive 93/42/EEC
- any bodily implant application for greater than 30 days
- any critical component in any medical device that supports or sustains human life.

At all times, our standard terms and conditions of sale apply.