

## Technical Data Sheet



### ALCOM POM 770/1 PTFE10

## MOCOM

|                        |                                                                   |
|------------------------|-------------------------------------------------------------------|
| Base Polymer           | Polyoxymethylene/general                                          |
| Filler/Additive System | 10 % PTFE                                                         |
| Special Features       | heat stabilised,easy release (demoulding),improved sliding / wear |
| Market Segment         | various                                                           |
| Application Area       | various                                                           |

|                               |                                                                                                                                                 |
|-------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|
| 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 60-120 °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)          | 60        | MPa                    | ISO 178     |
| Tensile Modulus                        | 2500      | MPa                    | ISO 527     |
| Tensile Strength                       | 54        | MPa                    | ISO 527     |
| Tensile Elongation at Break            | 15        | %                      | ISO 527     |
| Impact Strength (Charpy, 23°C)         | 65        | kJ/m <sup>2</sup>      | ISO 179/1eU |
| Notched Impact Strength (Charpy, 23°C) | 4         | kJ/m <sup>2</sup>      | ISO 179/1eA |
| <b>Thermal Properties</b>              |           |                        |             |
| Vicat B50                              | 145       | °C                     | ISO 306     |
| HDT / A (1,8 MPa)                      | 90        | °C                     | ISO 75-1/-2 |
| <b>Rheological Properties</b>          |           |                        |             |
| Melt Index (MVR)                       | 6.5       | cm <sup>3</sup> /10min | ISO 1133    |
| MVR temperature                        | 190       | °C                     | -           |
| MVR load                               | 2.16      | kg                     | -           |
| Shrinkage (lengthwise, 24h)            | 1.8 - 2.2 | %                      | ISO 294-4   |
| Shrinkage (lateral, 24h)               | 1.6 - 2   | %                      | ISO 294-4   |
| <b>Physical Properties</b>             |           |                        |             |
| Density                                | 1440      | kg/m <sup>3</sup>      | ISO 1183    |