

## Technical Data Sheet



### ALCOM PA66 910/1 PTFE10

|                        |                                                     |
|------------------------|-----------------------------------------------------|
| Base Polymer           | Polyamide 66                                        |
| Filler/Additive System | 10 % PTFE                                           |
| Special Features       | improved sliding / wear,heat stabilised             |
| Market Segment         | Automotive,Machinery                                |
| Application Area       | injection moulded parts                             |
| Typical Applications   | functional components,bearings and sliding elements |

|                               |                                                                                       |
|-------------------------------|---------------------------------------------------------------------------------------|
| Pre-Drying Conditions         | in a dry air (dessiccant) dryer <80 °C<br>for 2-12 h<br>dependant on moisture content |
| Processing Injection Moulding | melt temperature 280-300 °C<br>mould temperature 80-120 °C                            |
| Storage                       | dry, protected from light                                                             |

| Properties                              | dry/cond. | Dimension         | Test Norm   |
|-----------------------------------------|-----------|-------------------|-------------|
| <b>Mechanical Properties</b>            |           |                   |             |
| Flexural Modulus                        | 2800 / -  | MPa               | ISO 178     |
| Flexural Stress (3.5% Strain)           | 90 / -    | MPa               | ISO 178     |
| Tensile Modulus                         | 3200 / -  | MPa               | ISO 527     |
| Tensile Strength at Break               | 75 / -    | MPa               | ISO 527     |
| Tensile Elongation at Break             | 5.8 / -   | %                 | ISO 527     |
| Impact Strength (Charpy, 23°C)          | 75 / -    | kJ/m <sup>2</sup> | ISO 179/1eU |
| Impact Strength (Charpy, -40°C)         | 60 / -    | kJ/m <sup>2</sup> | ISO 179/1eU |
| Notched Impact Strength (Charpy, 23°C)  | 3 / -     | kJ/m <sup>2</sup> | ISO 179/1eA |
| Notched Impact Strength (Charpy, -40°C) | 3 / -     | kJ/m <sup>2</sup> | ISO 179/1eA |
| <b>Thermal Properties</b>               |           |                   |             |
| HDT / A (1,8 MPa)                       | 80 / *    | °C                | ISO 75-1/-2 |
| DSC (Melt Point)                        | 263 / *   | °C                | ISO 11357   |
| <b>Rheological Properties</b>           |           |                   |             |
| Shrinkage (lengthwise, 24h)             | 1.6 - 2   | %                 | ISO 294-4   |
| Shrinkage (lateral, 24h)                | 1.8 - 2.2 | %                 | ISO 294-4   |
| <b>Physical Properties</b>              |           |                   |             |
| Density                                 | 1200 / -  | kg/m <sup>3</sup> | ISO 1183    |