

## Technical Data Sheet



### ALCOM PA66 910/1.3 CF/GF30

|                        |                                                                                       |
|------------------------|---------------------------------------------------------------------------------------|
| Base Polymer           | Polyamide 66                                                                          |
| Filler/Additive System | 30 % glass fibre/carbon fibre                                                         |
| Special Features       | electrically conductive, reduced surface resistivity, heat stabilised, high stiffness |
| Market Segment         | Automotive, Machinery                                                                 |
| Application Area       | various                                                                               |
| Typical Applications   | bearings, functional components                                                       |

|                               |                                                                                   |
|-------------------------------|-----------------------------------------------------------------------------------|
| Pre-Drying Conditions         | 80 °C in a dry air (dessiccant) dryer for 2-12 h<br>max. moisture content <0,15 % |
| 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                        | 10700 / - | MPa               | ISO 178       |
| Flexural Strength                       | 270 / -   | MPa               | ISO 178       |
| Tensile Modulus                         | 12000 / - | MPa               | ISO 527       |
| Tensile Strength at Break               | 195 / -   | MPa               | ISO 527       |
| Tensile Elongation at Break             | 2.7 / -   | %                 | ISO 527       |
| Impact Strength (Charpy, 23°C)          | 45 / -    | kJ/m <sup>2</sup> | ISO 179/1eU   |
| Impact Strength (Charpy, -40°C)         | 35 / -    | kJ/m <sup>2</sup> | ISO 179/1eU   |
| Notched Impact Strength (Charpy, 23°C)  | 7 / -     | kJ/m <sup>2</sup> | ISO 179/1eA   |
| Notched Impact Strength (Charpy, -40°C) | 6 / -     | kJ/m <sup>2</sup> | ISO 179/1eA   |
| <b>Thermal Properties</b>               |           |                   |               |
| HDT / A (1,8 MPa)                       | 252 / *   | °C                | ISO 75-1/-2   |
| DSC (Melt Point)                        | 262 / *   | °C                | ISO 11357     |
| <b>Electrical Properties</b>            |           |                   |               |
| Surface Resistance                      | * / 1000  | Ohm               | IEC 62631-3-2 |
| <b>Rheological Properties</b>           |           |                   |               |
| Shrinkage (lengthwise, 24h)             | 0.1 - 0.3 | %                 | ISO 294-4     |
| Shrinkage (lateral, 24h)                | 0.5 - 0.7 | %                 | ISO 294-4     |
| <b>Physical Properties</b>              |           |                   |               |
| Density                                 | 1330 / -  | kg/m <sup>3</sup> | ISO 1183      |