

## Technical Data Sheet



### ALCOM PA66 910/1 AR5

|                        |                                                      |
|------------------------|------------------------------------------------------|
| Base Polymer           | Polyamide 66                                         |
| Filler/Additive System | 5 % aramid                                           |
| Special Features       | improved sliding / wear                              |
| 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                        | 3000 / -  | MPa               | ISO 178     |
| Flexural Strength                       | 110 / -   | MPa               | ISO 178     |
| Tensile Modulus                         | 3500 / -  | MPa               | ISO 527     |
| Tensile Strength at Break               | 66 / -    | MPa               | ISO 527     |
| Tensile Elongation at Break             | 2 / -     | %                 | ISO 527     |
| Impact Strength (Charpy, 23°C)          | 15 / -    | kJ/m <sup>2</sup> | ISO 179/1eU |
| Impact Strength (Charpy, -40°C)         | 15 / -    | kJ/m <sup>2</sup> | ISO 179/1eU |
| Notched Impact Strength (Charpy, 23°C)  | 1.5 / -   | kJ/m <sup>2</sup> | ISO 179/1eA |
| Notched Impact Strength (Charpy, -40°C) | 1.5 / -   | kJ/m <sup>2</sup> | ISO 179/1eA |
| <b>Thermal Properties</b>               |           |                   |             |
| HDT / A (1,8 MPa)                       | 85 / *    | °C                | ISO 75-1/-2 |
| DSC (Melt Point)                        | 263 / *   | °C                | ISO 11357   |
| <b>Physical Properties</b>              |           |                   |             |
| Density                                 | 1150 / -  | kg/m <sup>3</sup> | ISO 1183    |