

## Technical Data Sheet



### ALCOM PA6 900/1 GF10 GB15

|                        |                                     |
|------------------------|-------------------------------------|
| Base Polymer           | Polyamide 6                         |
| Filler/Additive System | 10 % glass fibres, 15 % glass beads |
| Special Features       | heat stabilised, low warpage        |
| Market Segment         | Automotive, Machinery               |
| Application Area       | injection moulded parts             |

|                               |                                                                                       |
|-------------------------------|---------------------------------------------------------------------------------------|
| 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 270-290 °C<br>mould temperature 80-100 °C                            |
| Storage                       | dry, protected from light                                                             |

| Properties                              | dry/cond. | Dimension | Test Norm   |
|-----------------------------------------|-----------|-----------|-------------|
| <b>Mechanical Properties</b>            |           |           |             |
| Flexural Modulus                        | 4600 / -  | MPa       | ISO 178     |
| Flexural Strength                       | 155 / -   | MPa       | ISO 178     |
| Tensile Modulus                         | 5300 / -  | MPa       | ISO 527     |
| Tensile Strength at Break               | 100 / -   | MPa       | ISO 527     |
| Tensile Elongation at Break             | 3.9 / -   | %         | ISO 527     |
| Impact Strength (Charpy, 23°C)          | 40 / -    | kJ/m²     | ISO 179/1eU |
| Impact Strength (Charpy, -40°C)         | 40 / -    | kJ/m²     | ISO 179/1eU |
| Notched Impact Strength (Charpy, 23°C)  | 5 / -     | kJ/m²     | ISO 179/1eA |
| Notched Impact Strength (Charpy, -40°C) | 4 / -     | kJ/m²     | ISO 179/1eA |
| <b>Thermal Properties</b>               |           |           |             |
| HDT / A (1,8 MPa)                       | 177 / *   | °C        | ISO 75-1/-2 |
| DSC (Melt Point)                        | 220 / *   | °C        | ISO 11357   |
| <b>Rheological Properties</b>           |           |           |             |
| Shrinkage (lengthwise, 24h)             | 0.5 - 0.9 | %         | ISO 294-4   |
| Shrinkage (lateral, 24h)                | 0.9 - 1.3 | %         | ISO 294-4   |
| <b>Physical Properties</b>              |           |           |             |
| Density                                 | 1300 / -  | kg/m³     | ISO 1183    |