

## Technical Data Sheet



### ALTECH PA6 A 3015/100 GK15

|                        |                                                                                             |
|------------------------|---------------------------------------------------------------------------------------------|
| Base Polymer           | Polyamide 6                                                                                 |
| Filler/Additive System | glass beads                                                                                 |
| Colour                 | black,natural color                                                                         |
| Special Features       | low warpage,heat stabilised,processing stabilised,nucleated,easy release (demoulding)       |
| Market Segment         | Automotive                                                                                  |
| Application Area       | injection moulded parts,exterior parts,interior decoration / finishing,clothing / fasteners |
| Typical Applications   | housings,functional components                                                              |

Pre-Drying Conditions 80 °C in a dry air (dessiccant) dryer  
for 2-12 h  
dependant on moisture content  
0,15 % max. moisture content

Processing Injection Moulding melt temperature 270-290 °C  
mould temperature 80-100 °C

Storage dry, protected from light

| Properties                              | dry/cond.   | Dimension         | Test Norm   |
|-----------------------------------------|-------------|-------------------|-------------|
| <b>Mechanical Properties</b>            |             |                   |             |
| Flexural Modulus                        | 3300 / 1100 | MPa               | ISO 178     |
| Flexural Stress (3.5% Strain)           | - / 30      | MPa               | ISO 178     |
| Flexural Strength                       | 115 / -     | MPa               | ISO 178     |
| Tensile Modulus                         | 3700 / 1300 | MPa               | ISO 527     |
| Tensile Stress at Yield                 | - / 40      | MPa               | ISO 527     |
| Tensile Strength at Break               | 75 / -      | MPa               | ISO 527     |
| Tensile Elongation at Yield             | - / 19      | %                 | ISO 527     |
| Tensile Elongation at Break             | 3.2 / 140   | %                 | ISO 527     |
| Impact Strength (Charpy, 23°C)          | 26 / 1000   | kJ/m <sup>2</sup> | ISO 179/1eU |
| Impact Strength (Charpy, -40°C)         | 24 / -      | kJ/m <sup>2</sup> | ISO 179/1eU |
| Notched Impact Strength (Charpy, 23°C)  | 3 / 11      | kJ/m <sup>2</sup> | ISO 179/1eA |
| Notched Impact Strength (Charpy, -40°C) | 2 / -       | kJ/m <sup>2</sup> | ISO 179/1eA |
| <b>Thermal Properties</b>               |             |                   |             |
| HDT / A (1,8 MPa)                       | 68 / *      | °C                | ISO 75-1/-2 |
| DSC (Melt Point)                        | 220 / *     | °C                | ISO 11357   |
| <b>Rheological Properties</b>           |             |                   |             |
| Shrinkage (lengthwise, 24h)             | 1.1 - 1.5   | %                 | ISO 294-4   |
| Shrinkage (lateral, 24h)                | 1.1 - 1.5   | %                 | ISO 294-4   |
| <b>Physical Properties</b>              |             |                   |             |
| Density                                 | 1230 / -    | kg/m <sup>3</sup> | ISO 1183    |