

## Technical Data Sheet



### ALTECH PA66 A 3020/100 GB20

|                        |                                                              |
|------------------------|--------------------------------------------------------------|
| Base Polymer           | Polyamide 66                                                 |
| Filler/Additive System | 20 % glass beads                                             |
| Colour                 | natural color                                                |
| Special Features       | heat stabilised,easy release (demoulding),high surface gloss |
| Market Segment         | Automotive,Machinery                                         |
| Application Area       | injection moulded parts,functional components                |

|                               |                                                                                                                       |
|-------------------------------|-----------------------------------------------------------------------------------------------------------------------|
| Pre-Drying Conditions         | 80 °C in a dry air (dessiccant) dryer<br>for 2-12 h<br>dependant on moisture content<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                        | 3700 / 1600 | MPa               | ISO 178     |
| Flexural Stress (3.5% Strain)           | - / 45      | MPa               | ISO 178     |
| Flexural Strength                       | 130 / -     | MPa               | ISO 178     |
| Tensile Modulus                         | 3700 / 1800 | MPa               | ISO 527     |
| Tensile Strength at Break               | 75 / 60     | MPa               | ISO 527     |
| Tensile Elongation at Break             | 3.1 / 28    | %                 | ISO 527     |
| Impact Strength (Charpy, 23°C)          | 20 / 140    | kJ/m <sup>2</sup> | ISO 179/1eU |
| Impact Strength (Charpy, -40°C)         | 20 / -      | kJ/m <sup>2</sup> | ISO 179/1eU |
| Notched Impact Strength (Charpy, 23°C)  | 2 / 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)                       | 88 / *      | °C                | ISO 75-1/-2 |
| DSC (Melt Point)                        | 263 / *     | °C                | ISO 11357   |
| <b>Rheological Properties</b>           |             |                   |             |
| Shrinkage (lengthwise, 24h)             | 0.8 - 1     | %                 | ISO 294-4   |
| Shrinkage (lateral, 24h)                | 1 - 1.2     | %                 | ISO 294-4   |
| <b>Physical Properties</b>              |             |                   |             |
| Density                                 | 1270 / -    | kg/m <sup>3</sup> | ISO 1183    |