

## Technical Data Sheet



### ALTECH PA6+PA66 A 2030/900 GF30

|                        |                                           |
|------------------------|-------------------------------------------|
| Base Polymer           | Polyamide 66/6                            |
| Filler/Additive System | 30 % glass fibres                         |
| Colour                 | black                                     |
| Special Features       | heat stabilised,easy release (demoulding) |
| Market Segment         | Machinery,Automotive                      |
| Application Area       | injection moulded parts                   |

|                               |                                                                                                                       |
|-------------------------------|-----------------------------------------------------------------------------------------------------------------------|
| 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 80-100 °C                                                            |
| Storage                       | dry, protected from light                                                                                             |

| Properties                              | dry/cond.   | Dimension         | Test Norm   |
|-----------------------------------------|-------------|-------------------|-------------|
| <b>Mechanical Properties</b>            |             |                   |             |
| Flexural Modulus                        | 8000 / 5000 | MPa               | ISO 178     |
| Flexural Strength                       | 240 / 160   | MPa               | ISO 178     |
| Tensile Modulus                         | 8900 / 4900 | MPa               | ISO 527     |
| Tensile Strength at Break               | 168 / 100   | MPa               | ISO 527     |
| Tensile Elongation at Break             | 3.3 / 4.7   | %                 | ISO 527     |
| Impact Strength (Charpy, 23°C)          | 70 / 90     | kJ/m <sup>2</sup> | ISO 179/1eU |
| Impact Strength (Charpy, -40°C)         | 55 / -      | kJ/m <sup>2</sup> | ISO 179/1eU |
| Notched Impact Strength (Charpy, 23°C)  | 10 / 16     | kJ/m <sup>2</sup> | ISO 179/1eA |
| Notched Impact Strength (Charpy, -40°C) | 8 / -       | kJ/m <sup>2</sup> | ISO 179/1eA |
| <b>Thermal Properties</b>               |             |                   |             |
| HDT / A (1,8 MPa)                       | 229 / *     | °C                | ISO 75-1/-2 |
| DSC (Melt Point)                        | 256 / *     | °C                | ISO 11357   |
| <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                                 | 1360 / -    | kg/m <sup>3</sup> | ISO 1183    |