

## Technical Data Sheet



### ALTECH PA66 FC 2030/508 GF30

|                        |                                                                    |
|------------------------|--------------------------------------------------------------------|
| Base Polymer           | Polyamide 66                                                       |
| Filler/Additive System | glass fibres                                                       |
| Colour                 | blue                                                               |
| Special Features       | heat stabilised,easy release (demoulding),injection moulding grade |
| Market Segment         | various,packaging                                                  |
| Application Area       | various,food contact                                               |
| Typical Applications   | various                                                            |

|                               |                                                                                                                       |
|-------------------------------|-----------------------------------------------------------------------------------------------------------------------|
| 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                                                                                             |
| Minimum Shelf Life            | months <12                                                                                                            |

| Properties                              | dry/cond.    | Dimension | Test Norm   |
|-----------------------------------------|--------------|-----------|-------------|
| <b>Mechanical Properties</b>            |              |           |             |
| Flexural Modulus                        | 9300 / 6400  | MPa       | ISO 178     |
| Flexural Strength                       | 250 / 180    | MPa       | ISO 178     |
| Tensile Modulus                         | 10000 / 6500 | MPa       | ISO 527     |
| Tensile Strength at Break               | 165 / 105    | MPa       | ISO 527     |
| Tensile Elongation at Break             | 2.5 / 5.5    | %         | ISO 527     |
| Impact Strength (Charpy, 23°C)          | 43 / 60      | kJ/m²     | ISO 179/1eU |
| Impact Strength (Charpy, -40°C)         | 38 / -       | kJ/m²     | ISO 179/1eU |
| Notched Impact Strength (Charpy, 23°C)  | 6 / 8        | kJ/m²     | ISO 179/1eA |
| Notched Impact Strength (Charpy, -40°C) | 4.5 / -      | kJ/m²     | ISO 179/1eA |
| <b>Thermal Properties</b>               |              |           |             |
| HDT / A (1,8 MPa)                       | 255 / *      | °C        | ISO 75-1/-2 |
| DSC (Melt Point)                        | 263 / *      | °C        | ISO 11357   |
| <b>Rheological Properties</b>           |              |           |             |
| Shrinkage (lengthwise, 24h)             | 0.2 - 0.4    | %         | ISO 294-4   |
| Shrinkage (lateral, 24h)                | 0.7 - 0.9    | %         | ISO 294-4   |
| <b>Physical Properties</b>              |              |           |             |
| Density                                 | 1380 / -     | kg/m³     | ISO 1183    |