

## Technical Data Sheet



### ALTECH PA6 A 3030/109 GB30

|                        |                                                                      |
|------------------------|----------------------------------------------------------------------|
| Base Polymer           | Polyamide 6                                                          |
| Filler/Additive System | 30 % glass beads                                                     |
| Colour                 | black,grey,natural color,red,orange                                  |
| Special Features       | high heat stabilised,easy release (demoulding),low warpage,easy flow |
| Market Segment         | Automotive                                                           |
| Typical Applications   | housings,clothing / fasteners                                        |
| Approvals              | GS93016                                                              |

|                               |                                                                                                                       |
|-------------------------------|-----------------------------------------------------------------------------------------------------------------------|
| 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 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                        | 3900 / 1300 | MPa       | ISO 178     |
| Flexural Stress (3.5% Strain)           | 110 / 40    | MPa       | ISO 178     |
| Tensile Modulus                         | 4200 / 1400 | MPa       | ISO 527     |
| Tensile Strength at Break               | 75 / 35     | MPa       | ISO 527     |
| Tensile Elongation at Break             | 4.3 / 30    | %         | ISO 527     |
| Impact Strength (Charpy, 23°C)          | 30 / 145    | kJ/m²     | ISO 179/1eU |
| Impact Strength (Charpy, -40°C)         | 25 / -      | kJ/m²     | ISO 179/1eU |
| Notched Impact Strength (Charpy, 23°C)  | 3 / 13      | kJ/m²     | ISO 179/1eA |
| Notched Impact Strength (Charpy, -40°C) | 2 / -       | kJ/m²     | ISO 179/1eA |
| <b>Thermal Properties</b>               |             |           |             |
| HDT / A (1,8 MPa)                       | 71 / *      | °C        | ISO 75-1/-2 |
| DSC (Melt Point)                        | 220 / *     | °C        | ISO 11357   |
| <b>Rheological Properties</b>           |             |           |             |
| Shrinkage (lengthwise, 24h)             | 1 - 1.4     | %         | ISO 294-4   |
| Shrinkage (lateral, 24h)                | 1 - 1.4     | %         | ISO 294-4   |
| <b>Physical Properties</b>              |             |           |             |
| Density                                 | 1350 / -    | kg/m³     | ISO 1183    |
| <b>Flammability</b>                     |             |           |             |
| Flammability (0.75 mm)                  | HB / *      | class     | UL 94       |
| Yellow Card available                   | yes / *     | -         | -           |