

## Technical Data Sheet



### ALTECH ABS A 3230/516 GK20 GF10

|                        |  |
|------------------------|--|
| Base Polymer           | Acrylonitrile/Butadiene/Styrene/Copolymer            |
| Delivery form          | pellets  |
| Filler/Additive System | 30 % glass fibres / glass beads                      |
| Colour                 | black  |
| Special Features       | impact modified,high stiffness,processing stabilised |
| Market Segment         | various  |
| Application Area       | various,injection moulded parts                      |
| Typical Applications   | various  |

|                               |  |
|-------------------------------|--|
| Pre-Drying Conditions         | 80 °C in a dry air (dessiccant) dryer<br>for 2-4 h<br>80 °C in an air circulating dryer<br>for 3-6 h<br>dependant on moisture content<br>max. moisture content <0,20 % |
| Processing Injection Moulding | melt temperature 220-260 °C<br>mould temperature 50-80 °C  |
| Storage                       | dry, protected from light  |

| Properties                              | Value     | Dimension              | Test Norm   |
|---|-----------|------------------------|-------------|
| <b>Mechanical Properties</b>            |           |                        |             |
| Flexural Modulus                        | 4000      | MPa                    | ISO 178     |
| Flexural Strength                       | 62        | MPa                    | ISO 178     |
| Tensile Modulus                         | 3300      | MPa                    | ISO 527     |
| Tensile Strength at Break               | 39        | MPa                    | ISO 527     |
| Tensile Elongation at Break             | 1.7       | %                      | ISO 527     |
| Impact Strength (Charpy, 23°C)          | 13        | kJ/m <sup>2</sup>      | ISO 179/1eU |
| Notched Impact Strength (Charpy, 23°C)  | 4.5       | kJ/m <sup>2</sup>      | ISO 179/1eA |
| Notched Impact Strength (Charpy, -40°C) | 2.5       | kJ/m <sup>2</sup>      | ISO 179/1eA |
| Ball Indentation Hardness H358/30       | 97        | MPa                    | ISO 2039-1  |
| <b>Thermal Properties</b>               |           |                        |             |
| Vicat B50                               | 93        | °C                     | ISO 306     |
| HDT / A (1,8 MPa)                       | 85        | °C                     | ISO 75-1/-2 |
| <b>Rheological Properties</b>           |           |                        |             |
| Melt Index (MVR)                        | 11        | cm <sup>3</sup> /10min | ISO 1133    |
| MVR temperature                         | 220       | °C                     | -           |
| MVR load                                | 10        | kg                     | -           |
| Shrinkage (lengthwise, 24h)             | 0.2 - 0.4 | %                      | ISO 294-4   |
| Shrinkage (lateral, 24h)                | 0.3 - 0.5 | %                      | ISO 294-4   |
| <b>Physical Properties</b>              |           |                        |             |
| Density                                 | 1260      | kg/m <sup>3</sup>      | ISO 1183    |