

## Technical Data Sheet



### ALTECH PA6 ECO 3230/100 GB20 GF10

## MOCOM

|                        |                                                |
|------------------------|------------------------------------------------|
| Base Polymer           | Polyamide 6                                    |
| Filler/Additive System | 20 % glass beads, 10 % glass fibres            |
| Special Features       | low warpage, heat stabilised, fast solidifying |
| Typical Applications   | various                                        |
| Approvals              | GS93016                                        |

|                               |                                                                                                                      |
|-------------------------------|----------------------------------------------------------------------------------------------------------------------|
| Pre-Drying Conditions         | 80 °C in a dry air (dessiccant) dryer<br>for 2-12 h<br>dependant on moisture content<br>0,15 % max. moisture content |
| Processing Injection Moulding | melt temperature 270-290 °C<br>mould temperature 80-100 °C                                                           |
| Storage                       | dry, protected from light                                                                                            |

| Properties                             | Value     | Dimension                 | Test Norm        |
|----------------------------------------|-----------|---------------------------|------------------|
| <b>Mechanical Properties</b>           |           |                           |                  |
| Flexural Modulus                       | 5400      | MPa                       | ISO 178          |
| Flexural Strength                      | 150       | MPa                       | ISO 178          |
| Tensile Modulus                        | 5800      | MPa                       | ISO 527          |
| Tensile Strength at Break              | 95        | MPa                       | ISO 527          |
| Tensile Elongation at Break            | 3.2       | %                         | ISO 527          |
| Impact Strength (Charpy, 23°C)         | 40        | kJ/m <sup>2</sup>         | ISO 179/1eU      |
| Notched Impact Strength (Charpy, 23°C) | 4         | kJ/m <sup>2</sup>         | ISO 179/1eA      |
| <b>Thermal Properties</b>              |           |                           |                  |
| HDT / A (1,8 MPa)                      | 190       | °C                        | ISO 75-1/-2      |
| <b>Rheological Properties</b>          |           |                           |                  |
| Shrinkage (lengthwise, 24h)            | 0.5 - 0.7 | %                         | ISO 294-4        |
| Shrinkage (lateral, 24h)               | 0.6 - 0.8 | %                         | ISO 294-4        |
| <b>Physical Properties</b>             |           |                           |                  |
| Density                                | 1350      | kg/m <sup>3</sup>         | ISO 1183         |
| <b>Ecological Properties</b>           |           |                           |                  |
| Global Warming Potential (GWP)         | 2.89      | kg CO <sub>2</sub> eq./kg | ISO 14040, 14044 |