

## Technical Data Sheet



### ALTECH PC ECO 2030/200 GF30

|                        |                                                               |
|------------------------|---------------------------------------------------------------|
| Base Polymer           | Polycarbonate                                                 |
| Filler/Additive System | 30 % glass fibres                                             |
| Special Features       | contains recycled material                                    |
| Market Segment         | electrical and electronic, building and construction, various |
| Application Area       | household goods, energy management, various                   |
| Typical Applications   | plugs / connectors, housings, various                         |

|                               |                                                                                                                                                                                   |
|-------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Pre-Drying Conditions         | in a dry air (dessiccant) dryer 100-120 °C<br>for 2-3 h<br>in an air circulating dryer 100-120 °C<br>for 4-12 h<br>dependant on moisture content<br>max. moisture content <0,02 % |
| Processing Injection Moulding | melt temperature 310-330 °C<br>mould temperature 80-130 °C                                                                                                                        |
| Storage                       | dry, protected from light                                                                                                                                                         |

| Properties                             | Value     | Dimension                 | Test Norm        |
|----------------------------------------|-----------|---------------------------|------------------|
| <b>Mechanical Properties</b>           |           |                           |                  |
| Tensile Modulus                        | 7700      | MPa                       | ISO 527          |
| Tensile Strength at Break              | 95        | MPa                       | ISO 527          |
| Tensile Elongation at Break            | 2.5       | %                         | ISO 527          |
| Impact Strength (Charpy, 23°C)         | 45        | kJ/m <sup>2</sup>         | ISO 179/1eU      |
| Notched Impact Strength (Charpy, 23°C) | 8.5       | kJ/m <sup>2</sup>         | ISO 179/1eA      |
| <b>Thermal Properties</b>              |           |                           |                  |
| HDT / A (1,8 MPa)                      | 138       | °C                        | ISO 75-1/-2      |
| <b>Rheological Properties</b>          |           |                           |                  |
| Melt Index (MVR)                       | 6         | cm <sup>3</sup> /10min    | ISO 1133         |
| MVR temperature                        | 300       | °C                        | -                |
| MVR load                               | 1.2       | kg                        | -                |
| Shrinkage (lengthwise, 24h)            | 0.1 - 0.3 | %                         | ISO 294-4        |
| Shrinkage (lateral, 24h)               | 0.4 - 0.6 | %                         | ISO 294-4        |
| <b>Physical Properties</b>             |           |                           |                  |
| Density                                | 1430      | kg/m <sup>3</sup>         | ISO 1183         |
| <b>Ecological Properties</b>           |           |                           |                  |
| Global Warming Potential (GWP)         | 0.74      | kg CO <sub>2</sub> eq./kg | ISO 14040, 14044 |