

## Technical Data Sheet



### ALTECH PC A 2030/100 GF30

## MOCOM

|                        |                                                                           |
|------------------------|---------------------------------------------------------------------------|
| Base Polymer           | Polycarbonate                                                             |
| Filler/Additive System | 30 % glass fibres                                                         |
| Colour                 | black                                                                     |
| Special Features       | good flow,heat stabilised,easy release (demoulding),processing stabilised |
| Market Segment         | Automotive,electrical and electronic                                      |
| Application Area       | injection moulded parts                                                   |
| Typical Applications   | thin walled parts,housings                                                |
| Approvals              | GMW3013                                                                   |

|                               |                                                                                                                                                                           |
|-------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Pre-Drying Conditions         | 120 °C in a dry air (dessiccant) dryer<br>for 2-3 h<br>120 °C in an air circulating dryer<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>            |           |           |             |
| Flexural Modulus                        | 6300      | MPa       | ISO 178     |
| Flexural Strength                       | 110       | MPa       | ISO 178     |
| Tensile Modulus                         | 6300      | MPa       | ISO 527     |
| Tensile Strength at Break               | 75        | MPa       | ISO 527     |
| Tensile Elongation at Break             | 2.7       | %         | ISO 527     |
| Impact Strength (Charpy, 23°C)          | 40        | kJ/m²     | ISO 179/1eU |
| Impact Strength (Charpy, -40°C)         | 35        | kJ/m²     | ISO 179/1eU |
| Notched Impact Strength (Charpy, 23°C)  | 4         | kJ/m²     | ISO 179/1eA |
| Notched Impact Strength (Charpy, -40°C) | 4         | kJ/m²     | ISO 179/1eA |
| <b>Thermal Properties</b>               |           |           |             |
| Vicat B50                               | 144       | °C        | ISO 306     |
| HDT / A (1,8 MPa)                       | 139       | °C        | ISO 75-1/-2 |
| <b>Rheological Properties</b>           |           |           |             |
| Melt Index (MVR)                        | 15        | cm³/10min | ISO 1133    |
| MVR temperature                         | 300       | °C        | -           |
| MVR load                                | 1.2       | kg        | -           |
| Shrinkage (lengthwise, 24h)             | 0.2 - 0.4 | %         | ISO 294-4   |
| Shrinkage (lateral, 24h)                | 0.2 - 0.4 | %         | ISO 294-4   |

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#### Physical Properties

|                                 |        |                   |              |
|---------------------------------|--------|-------------------|--------------|
| Density                         | 1420   | kg/m <sup>3</sup> | ISO 1183     |
| <b>Flammability</b>             |        |                   |              |
| Flammability (1.5 mm)           | HB     | class             | UL 94        |
| Glow Wire (GWFI, 850 °C, 2.0mm) | passed | -                 | DIN EN 60695 |