

## Technical Data Sheet



### ALTECH PC A 1000/532 UV AS

|                        |                                                                                          |
|------------------------|------------------------------------------------------------------------------------------|
| Base Polymer           | Polycarbonate                                                                            |
| Filler/Additive System | light stabiliser                                                                         |
| Colour                 | grey,white                                                                               |
| Special Features       | antistatic,UV stabilised,easy release (demoulding),processing stabilised,heat stabilised |
| Market Segment         | electrical and electronic,building and construction,sport and leisure                    |
| Application Area       | injection moulded parts                                                                  |
| Typical Applications   | housings,functional components                                                           |

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|-------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Pre-Drying Conditions         | 120 °C in a dry air (dessiccant) dryer for 2-4 h<br>in an air circulating dryer 100-120 °C for 4-12 h<br>dependant on moisture content<br>max. moisture content <0,02 % |
| Processing Injection Moulding | melt temperature 270-310 °C<br>mould temperature 80-110 °C                                                                                                              |
| Storage                       | dry, protected from light                                                                                                                                               |

| Properties                              | Value     | Dimension              | Test Norm    |
|-----------------------------------------|-----------|------------------------|--------------|
| <b>Mechanical Properties</b>            |           |                        |              |
| Tensile Modulus                         | 2400      | MPa                    | ISO 527      |
| Tensile Stress at Yield                 | 67        | MPa                    | ISO 527      |
| Tensile Elongation at Yield             | 5.6       | %                      | ISO 527      |
| Tensile Elongation at Break             | 65        | %                      | ISO 527      |
| Impact Strength (Charpy, 23°C)          | no break  | kJ/m <sup>2</sup>      | ISO 179/1eU  |
| Impact Strength (Charpy, -40°C)         | no break  | kJ/m <sup>2</sup>      | ISO 179/1eU  |
| Notched Impact Strength (Charpy, 23°C)  | 9         | kJ/m <sup>2</sup>      | ISO 179/1eA  |
| Notched Impact Strength (Charpy, -40°C) | 8.5       | kJ/m <sup>2</sup>      | ISO 179/1eA  |
| <b>Thermal Properties</b>               |           |                        |              |
| Vicat B50                               | 137       | °C                     | ISO 306      |
| <b>Rheological Properties</b>           |           |                        |              |
| Melt Index (MVR)                        | 16        | cm <sup>3</sup> /10min | ISO 1133     |
| MVR temperature                         | 300       | °C                     | -            |
| MVR load                                | 1.2       | kg                     | -            |
| Shrinkage (24h)                         | 0.5 - 0.8 | %                      | ISO 294-4    |
| <b>Physical Properties</b>              |           |                        |              |
| Density                                 | 1230      | kg/m <sup>3</sup>      | ISO 1183     |
| <b>Flammability</b>                     |           |                        |              |
| Flammability (1.5 mm)                   | V-2       | class                  | UL 94        |
| Glow Wire (GWFI, 850°C, 2.0mm)          | passed    | -                      | DIN EN 60695 |