

## Technical Data Sheet



### ALTECH PC A 1000/572 UV

|                        |                                                      |
|------------------------|------------------------------------------------------|
| Base Polymer           | Polycarbonate                                        |
| Filler/Additive System | light stabiliser                                     |
| Colour                 | grey                                                 |
| Special Features       | easy release (demoulding), UV stabilised             |
| Market Segment         | building and construction, electrical and electronic |
| Application Area       | interior, electrical and electronic (E&E)            |
| Typical Applications   | various, functional components, housings, sockets    |

|                               |                                                                                                                                                                               |
|-------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Pre-Drying Conditions         | 120 °C in a dry air (dessiccant) dryer<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 270-310 °C<br>mould temperature 80-110 °C                                                                                                                    |
| Storage                       | dry, protected from light                                                                                                                                                     |

| Properties                              | Value     | Dimension              | Test Norm   |
|-----------------------------------------|-----------|------------------------|-------------|
| <b>Mechanical Properties</b>            |           |                        |             |
| Flexural Modulus                        | 2500      | MPa                    | ISO 178     |
| Flexural Stress (3.5% Strain)           | 75        | MPa                    | ISO 178     |
| Tensile Modulus                         | 2400      | MPa                    | ISO 527     |
| Tensile Stress at Yield                 | 62        | MPa                    | ISO 527     |
| Tensile Elongation at Yield             | 6         | %                      | ISO 527     |
| Tensile Elongation at Break             | 100       | %                      | 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)  | 12        | kJ/m <sup>2</sup>      | ISO 179/1eA |
| Notched Impact Strength (Charpy, -40°C) | 12        | kJ/m <sup>2</sup>      | ISO 179/1eA |
| <b>Thermal Properties</b>               |           |                        |             |
| Vicat B50                               | 144       | °C                     | ISO 306     |
| HDT / A (1,8 MPa)                       | 131       | °C                     | ISO 75-1/-2 |
| <b>Rheological Properties</b>           |           |                        |             |
| Melt Index (MVR)                        | 13        | 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   |

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#### Physical Properties

|         |      |                   |          |
|---------|------|-------------------|----------|
| Density | 1210 | kg/m <sup>3</sup> | ISO 1183 |
|---------|------|-------------------|----------|

#### Flammability

|                       |    |       |       |
|-----------------------|----|-------|-------|
| Flammability (1.5 mm) | HB | class | UL 94 |
|-----------------------|----|-------|-------|