

## Technical Data Sheet



### ALTECH PC+ASA A 1000/502 UV

|                      |                                                                                   |
|----------------------|-----------------------------------------------------------------------------------|
| Base Polymer         | Polycarbonate +Acrylonitrile Styrene Acrylate Blend                               |
| Special Features     | highly UV stabilised,easy release (demoulding),good flow,injection moulding grade |
| Market Segment       | various,Automotive,building and construction                                      |
| Application Area     | various,exterior parts                                                            |
| Typical Applications | various,garden equipment                                                          |

|                               |                                                                                                                                               |
|-------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| Pre-Drying Conditions         | in a dry air (dessiccant) dryer 90-110 °C<br>for 2-4 h<br>in an air circulating dryer 90-110 °C<br>for 3-6 h<br>dependant on moisture content |
| Processing Injection Moulding | melt temperature 260-300 °C<br>mould temperature 60-100 °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)           | 78        | MPa                    | ISO 178     |
| Tensile Modulus                         | 2400      | MPa                    | ISO 527     |
| Tensile Stress at Yield                 | 58        | MPa                    | ISO 527     |
| Tensile Elongation at Yield             | 4.3       | %                      | ISO 527     |
| Tensile Elongation at Break             | 35        | %                      | 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)  | 55        | kJ/m <sup>2</sup>      | ISO 179/1eA |
| Notched Impact Strength (Charpy, -40°C) | 10        | kJ/m <sup>2</sup>      | ISO 179/1eA |
| <b>Thermal Properties</b>               |           |                        |             |
| Vicat B50                               | 114       | °C                     | ISO 306     |
| HDT / A (1,8 MPa)                       | 103       | °C                     | ISO 75-1/-2 |
| <b>Rheological Properties</b>           |           |                        |             |
| Melt Index (MVR)                        | 27        | cm <sup>3</sup> /10min | ISO 1133    |
| MVR temperature                         | 260       | °C                     | -           |
| MVR load                                | 5         | kg                     | -           |
| Shrinkage (24h)                         | 0.4 - 0.7 | %                      | ISO 294-4   |
| <b>Physical Properties</b>              |           |                        |             |
| Density                                 | 1150      | kg/m <sup>3</sup>      | ISO 1183    |