

## Technical Data Sheet



### ALTECH PC+ABS ECO 1000/510 IM

|                      |                                                      |
|----------------------|------------------------------------------------------|
| Base Polymer         | Polycarbonate +Acrylonitrile Butadiene Styrene Blend |
| Special Features     | contains recycled material                           |
| Market Segment       | Automotive,electrical and electronic,various         |
| Application Area     | interior,domestic appliances,various                 |
| Typical Applications | housings,functional components,various               |

|                       |                                                                                                                                                 |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|
| Pre-Drying Conditions | in a dry air (dessiccant) dryer 100-110 °C<br>for 2-4 h<br>in an air circulating dryer 100-110 °C<br>for 3-6 h<br>dependant on moisture content |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|

|                               |                                                            |
|-------------------------------|------------------------------------------------------------|
| Processing Injection Moulding | melt temperature 240-280 °C<br>mould temperature 70-100 °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                | 60        | MPa                       | ISO 527          |
| Tensile Elongation at Yield            | 5         | %                         | ISO 527          |
| Tensile Elongation at Break            | 15        | %                         | ISO 527          |
| Impact Strength (Charpy, 23°C)         | no break  | kJ/m <sup>2</sup>         | ISO 179/1eU      |
| Notched Impact Strength (Charpy, 23°C) | 40        | kJ/m <sup>2</sup>         | ISO 179/1eA      |
| <b>Thermal Properties</b>              |           |                           |                  |
| Vicat B50                              | 128       | °C                        | ISO 306          |
| <b>Rheological Properties</b>          |           |                           |                  |
| Melt Index (MVR)                       | 30        | cm <sup>3</sup> /10min    | ISO 1133         |
| MVR temperature                        | 260       | °C                        | -                |
| MVR load                               | 5         | kg                        | -                |
| Shrinkage (24h)                        | 0.5 - 0.8 | %                         | ISO 294-4        |
| <b>Physical Properties</b>             |           |                           |                  |
| Density                                | 1150      | kg/m <sup>3</sup>         | ISO 1183         |
| <b>Ecological Properties</b>           |           |                           |                  |
| Global Warming Potential (GWP)         | 0.8       | kg CO <sub>2</sub> eq./kg | ISO 14040, 14044 |