

## Technical Data Sheet



### ALTECH PP-B ECO 1000/906

|                      |                                                                            |
|----------------------|----------------------------------------------------------------------------|
| Base Polymer         | Polypropylene                                                              |
| Special Features     | processing stabilised,easy release (demoulding),contains recycled material |
| Market Segment       | Automotive,electrical and electronic,Machinery,building and construction   |
| Application Area     | injection moulded parts                                                    |
| Typical Applications | housings,garden equipment,bezels                                           |

|                       |                                                                                                              |
|-----------------------|--------------------------------------------------------------------------------------------------------------|
| Pre-Drying Conditions | in a dry air (dessiccant) dryer 80-120 °C<br>for 2-3 h<br>in an air circulating dryer 80-120 °C<br>for 2-4 h |
|-----------------------|--------------------------------------------------------------------------------------------------------------|

|                               |                                                           |
|-------------------------------|-----------------------------------------------------------|
| Processing Injection Moulding | melt temperature 200-250 °C<br>mould temperature 20-70 °C |
|-------------------------------|-----------------------------------------------------------|

|         |                           |
|---------|---------------------------|
| Storage | dry, protected from light |
|---------|---------------------------|

| Properties                             | Value     | Dimension              | Test Norm   |
|----------------------------------------|-----------|------------------------|-------------|
| <b>Mechanical Properties</b>           |           |                        |             |
| Flexural Modulus                       | 1300      | MPa                    | ISO 178     |
| Flexural Stress (3.5% Strain)          | 30        | MPa                    | ISO 178     |
| Tensile Modulus                        | 1300      | MPa                    | ISO 527     |
| Tensile Stress at Yield                | 27        | MPa                    | ISO 527     |
| Tensile Elongation at Yield            | 7.9       | %                      | ISO 527     |
| Tensile Elongation at Break            | 40        | %                      | ISO 527     |
| Impact Strength (Charpy, 23°C)         | 55        | kJ/m <sup>2</sup>      | ISO 179/1eU |
| Notched Impact Strength (Charpy, 23°C) | 7.5       | kJ/m <sup>2</sup>      | ISO 179/1eA |
| <b>Thermal Properties</b>              |           |                        |             |
| Vicat B50                              | 71        | °C                     | ISO 306     |
| <b>Rheological Properties</b>          |           |                        |             |
| Melt Index (MVR)                       | 20        | cm <sup>3</sup> /10min | ISO 1133    |
| MVR temperature                        | 230       | °C                     | -           |
| MVR load                               | 2.16      | kg                     | -           |
| Shrinkage (lengthwise, 24h)            | 1.6 - 2   | %                      | ISO 294-4   |
| Shrinkage (lateral, 24h)               | 1.5 - 1.9 | %                      | ISO 294-4   |
| <b>Physical Properties</b>             |           |                        |             |
| Density                                | 920       | kg/m <sup>3</sup>      | ISO 1183    |