

## Technical Data Sheet



## ALTECH PA6+ABS A 1000/720 UV

|                               |                                                                                      |
|-------------------------------|--------------------------------------------------------------------------------------|
| Base Polymer                  | Polyamide + Acrylonitrile Butadiene Styrene Blend                                    |
| Filler/Additive System        | processing stabilised,UV stabilised                                                  |
| Colour                        | natural color,white                                                                  |
| Market Segment                | domestic appliances,cosmetics, jewellery                                             |
| Application Area              | injection moulded parts                                                              |
| Typical Applications          | housings                                                                             |
| Pre-Drying Conditions         | 80 °C in a dry air (dessiccant) dryer<br>for 2-12 h<br>dependant on moisture content |
| Processing Injection Moulding | melt temperature 250-280 °C<br>mould temperature 40-90 °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)           | 77        | MPa                    | ISO 178     |
| Tensile Modulus                         | 2500      | MPa                    | ISO 527     |
| Tensile Stress at Yield                 | 62        | MPa                    | ISO 527     |
| Tensile Elongation at Yield             | 3.9       | %                      | ISO 527     |
| Tensile Elongation at Break             | 55        | %                      | ISO 527     |
| Impact Strength (Charpy, 23°C)          | no break  | kJ/m <sup>2</sup>      | ISO 179/1eU |
| Impact Strength (Charpy, -40°C)         | 250       | 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) | 8.5       | kJ/m <sup>2</sup>      | ISO 179/1eA |
| Ball Indentation Hardness H358/30       | 105       | MPa                    | ISO 2039-1  |
| <b>Thermal Properties</b>               |           |                        |             |
| Vicat B50                               | 160       | °C                     | ISO 306     |
| HDT / A (1,8 MPa)                       | 60        | °C                     | ISO 75-1/-2 |
| DSC (Melt Point)                        | 220       | °C                     | ISO 11357   |
| <b>Rheological Properties</b>           |           |                        |             |
| Melt Index (MVR)                        | 45        | cm <sup>3</sup> /10min | ISO 1133    |
| MVR temperature                         | 260       | °C                     | -           |
| MVR load                                | 5         | kg                     | -           |
| Shrinkage (24h)                         | 0.9 - 1.2 | %                      | ISO 294-4   |
| <b>Physical Properties</b>              |           |                        |             |
| Density                                 | 1120      | kg/m <sup>3</sup>      | ISO 1183    |
| <b>Flammability</b>                     |           |                        |             |
| Flammability (1.5 mm)                   | HB        | class                  | UL 94       |