

## Technical Data Sheet



## ALTECH PA6 ECO 1000/588

|                      |                                                                                       |
|----------------------|---------------------------------------------------------------------------------------|
| Base Polymer         | Polyamide 6                                                                           |
| Special Features     | fast solidifying,easy release (demoulding),heat stabilised,contains recycled material |
| Market Segment       | electrical and electronic,Automotive,building and construction,various                |
| Application Area     | ducting / piping systems,consumer electronics,various                                 |
| Typical Applications | conduit,technical profiles,various                                                    |

Pre-Drying Conditions      80 °C in a dry air (dessiccant) dryer  
for 2-12 h  
dependant on moisture content

Processing Injection Moulding      melt temperature 250-270 °C  
mould temperature 40-80 °C

Storage      dry, protected from light

| Properties                             | Value    | Dimension                 | Test Norm        |
|----------------------------------------|----------|---------------------------|------------------|
| <b>Mechanical Properties</b>           |          |                           |                  |
| Flexural Modulus                       | 2800     | MPa                       | ISO 178          |
| Flexural Stress (3.5% Strain)          | 100      | MPa                       | ISO 178          |
| Tensile Modulus                        | 3200     | MPa                       | ISO 527          |
| Tensile Stress at Yield                | 83       | MPa                       | ISO 527          |
| Tensile Elongation at Yield            | 4.3      | %                         | 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) | 4        | kJ/m <sup>2</sup>         | ISO 179/1eA      |
| <b>Thermal Properties</b>              |          |                           |                  |
| HDT / A (1,8 MPa)                      | 60       | °C                        | ISO 75-1/-2      |
| <b>Physical Properties</b>             |          |                           |                  |
| Density                                | 1130     | kg/m <sup>3</sup>         | ISO 1183         |
| <b>Ecological Properties</b>           |          |                           |                  |
| Global Warming Potential (GWP)         | 0.75     | kg CO <sub>2</sub> eq./kg | ISO 14040, 14044 |