

## Technical Data Sheet



## ALTECH PP-H FC 1000/578

|                        |                                                        |
|------------------------|--------------------------------------------------------|
| Base Polymer           | Polypropylene Homopolymer                              |
| Filler/Additive System | hygienic material                                      |
| Colour                 | white                                                  |
| Market Segment         | packaging, food processing industry                    |
| Application Area       | injection moulded parts, household goods, food contact |
| Typical Applications   | functional components, housings                        |

|                       |                                                                                                                                                                                |
|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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<br>dependant on moisture content<br>max. moisture content <0,10 % |
|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

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

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

|                    |            |
|--------------------|------------|
| Minimum Shelf Life | months <24 |
|--------------------|------------|

| Properties                              | Value     | Dimension              | Test Norm   |
|-----------------------------------------|-----------|------------------------|-------------|
| <b>Mechanical Properties</b>            |           |                        |             |
| Flexural Modulus                        | 1600      | MPa                    | ISO 178     |
| Flexural Stress (3.5% Strain)           | 38        | MPa                    | ISO 178     |
| Tensile Modulus                         | 1600      | MPa                    | ISO 527     |
| Tensile Stress at Yield                 | 35        | MPa                    | ISO 527     |
| Tensile Elongation at Yield             | 8.7       | %                      | ISO 527     |
| Impact Strength (Charpy, 23°C)          | 90        | kJ/m <sup>2</sup>      | ISO 179/1eU |
| Impact Strength (Charpy, -40°C)         | 12        | kJ/m <sup>2</sup>      | ISO 179/1eU |
| Notched Impact Strength (Charpy, 23°C)  | 4         | kJ/m <sup>2</sup>      | ISO 179/1eA |
| Notched Impact Strength (Charpy, -40°C) | 1.5       | kJ/m <sup>2</sup>      | ISO 179/1eA |
| <b>Thermal Properties</b>               |           |                        |             |
| Vicat B50                               | 91        | °C                     | ISO 306     |
| HDT / A (1,8 MPa)                       | 62        | °C                     | ISO 75-1/-2 |
| DSC (Melt Point)                        | 166       | °C                     | ISO 11357   |
| <b>Rheological Properties</b>           |           |                        |             |
| Melt Index (MVR)                        | 30        | cm <sup>3</sup> /10min | ISO 1133    |
| MVR temperature                         | 230       | °C                     | -           |
| MVR load                                | 2.16      | kg                     | -           |
| Shrinkage (lengthwise, 24h)             | 1.3 - 1.7 | %                      | ISO 294-4   |
| Shrinkage (lateral, 24h)                | 1.3 - 1.7 | %                      | ISO 294-4   |
| <b>Physical Properties</b>              |           |                        |             |
| Density                                 | 920       | kg/m <sup>3</sup>      | ISO 1183    |