

## Technical Data Sheet



### ALCOM MED PP 4930 17007

|                        |                                                                    |
|------------------------|--------------------------------------------------------------------|
| Base Polymer           | Polypropylene Homopolymer                                          |
| Filler/Additive System | 30 % talcum                                                        |
| Special Features       | injection moulding grade,heat stabilised,easy release (demoulding) |
| Market Segment         | Medical / Personal Care                                            |
| Application Area       | medical devices,various                                            |
| Typical Applications   | injection moulded parts                                            |

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

|                               |                                                           |
|-------------------------------|-----------------------------------------------------------|
| Processing Injection Moulding | melt temperature 200-270 °C<br>mould temperature 20-90 °C |
|-------------------------------|-----------------------------------------------------------|

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

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

| Properties                              | Value     | Dimension              | Based on Test Norm |
|-----------------------------------------|-----------|------------------------|--------------------|
| <b>Mechanical Properties</b>            |           |                        |                    |
| Flexural Modulus                        | 2800      | MPa                    | ISO 178            |
| Flexural Stress (3.5% Strain)           | 40        | MPa                    | ISO 178            |
| Tensile Modulus                         | 2600      | MPa                    | ISO 527            |
| Tensile Stress at Yield                 | 30        | MPa                    | ISO 527            |
| Tensile Elongation at Yield             | 6.3       | %                      | ISO 527            |
| Tensile Elongation at Break             | 25        | %                      | ISO 527            |
| Impact Strength (Charpy, 23°C)          | 55        | kJ/m <sup>2</sup>      | ISO 179/1eU        |
| Impact Strength (Charpy, -40°C)         | 15        | kJ/m <sup>2</sup>      | ISO 179/1eU        |
| Notched Impact Strength (Charpy, 23°C)  | 3.5       | 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                               | 86        | °C                     | ISO 306            |
| HDT / A (1,8 MPa)                       | 76        | °C                     | ISO 75-1/-2        |
| DSC (Melt Point)                        | 163       | °C                     | ISO 11357          |
| <b>Rheological Properties</b>           |           |                        |                    |
| Melt Index (MVR)                        | 10        | cm <sup>3</sup> /10min | ISO 1133           |
| MVR temperature                         | 230       | °C                     | -                  |
| MVR load                                | 2.16      | kg                     | -                  |
| Shrinkage (lengthwise, 24h)             | 0.6 - 1   | %                      | ISO 294-4          |
| Shrinkage (lateral, 24h)                | 1.2 - 1.6 | %                      | ISO 294-4          |
| <b>Physical Properties</b>              |           |                        |                    |
| Density                                 | 1160      | kg/m <sup>3</sup>      | ISO 1183           |