

## Technical Data Sheet



### ALCOM MED PS 1000 AS 14115

|                        |                         |
|------------------------|-------------------------|
| Base Polymer           | Polystyrene, impact     |
| Filler/Additive System | antistatic - permanent  |
| Special Features       | impact modified         |
| Market Segment         | Medical / Personal Care |
| Typical Applications   | housings                |

|                               |                                                                                                                                             |
|-------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|
| Pre-Drying Conditions         | in an air circulating dryer 60-80 °C<br>for 2-3 h<br>in a dry air (dessiccant) dryer 60-80 °C<br>for 2-3 h<br>dependant on moisture content |
| Processing Injection Moulding | melt temperature 180-260 °C<br>mould temperature 10-70 °C                                                                                   |
| Storage                       | dry, protected from light                                                                                                                   |
| Minimum Shelf Life            | months <24                                                                                                                                  |

| Properties                              | Value     | Dimension              | Based on<br>Test Norm |
|-----------------------------------------|-----------|------------------------|-----------------------|
| <b>Mechanical Properties</b>            |           |                        |                       |
| Flexural Modulus                        | 2300      | MPa                    | ISO 178               |
| Flexural Stress (3.5% Strain)           | 40        | MPa                    | ISO 178               |
| Tensile Modulus                         | 2200      | MPa                    | ISO 527               |
| Tensile Stress at Yield                 | 26        | MPa                    | ISO 527               |
| Tensile Elongation at Yield             | 1.3       | %                      | ISO 527               |
| Tensile Elongation at Break             | 20        | %                      | ISO 527               |
| Impact Strength (Charpy, 23°C)          | 60        | kJ/m <sup>2</sup>      | ISO 179/1eU           |
| Impact Strength (Charpy, -40°C)         | 45        | kJ/m <sup>2</sup>      | ISO 179/1eU           |
| Notched Impact Strength (Charpy, 23°C)  | 7         | kJ/m <sup>2</sup>      | ISO 179/1eA           |
| Notched Impact Strength (Charpy, -40°C) | 2         | kJ/m <sup>2</sup>      | ISO 179/1eA           |
| <b>Thermal Properties</b>               |           |                        |                       |
| Vicat B50                               | 80        | °C                     | ISO 306               |
| HDT / A (1,8 MPa)                       | 74        | °C                     | ISO 75-1/-2           |
| <b>Rheological Properties</b>           |           |                        |                       |
| Melt Index (MVR)                        | 17        | cm <sup>3</sup> /10min | ISO 1133              |
| MVR temperature                         | 200       | °C                     | -                     |
| MVR load                                | 5         | kg                     | -                     |
| Shrinkage (24h)                         | 0.3 - 0.6 | %                      | ISO 294-4             |
| <b>Physical Properties</b>              |           |                        |                       |
| Density                                 | 1040      | kg/m <sup>3</sup>      | ISO 1183              |