

## Technical Data Sheet



### ALTECH PS A 1000/901 WT1225-20

|                      |                                                                       |
|----------------------|-----------------------------------------------------------------------|
| Base Polymer         | Polystyrene                                                           |
| Special Features     | injection moulding grade,easy release (demoulding),easy flow          |
| Market Segment       | electrical and electronic,building and construction,sport and leisure |
| Typical Applications | bezels,housings,profile                                               |

|                               |                                                                                                                                             |
|-------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|
| Pre-Drying Conditions         | in a dry air (dessiccant) dryer 60-80 °C<br>for 2-3 h<br>in an air circulating 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                                                                                                                   |

| Properties                              | Value     | Dimension              | Test Norm   |
|-----------------------------------------|-----------|------------------------|-------------|
| <b>Mechanical Properties</b>            |           |                        |             |
| Tensile Modulus                         | 3200      | MPa                    | ISO 527     |
| Tensile Strength at Break               | 45        | MPa                    | ISO 527     |
| Tensile Elongation at Break             | 1.5       | %                      | ISO 527     |
| Impact Strength (Charpy, 23°C)          | 9         | kJ/m <sup>2</sup>      | ISO 179/1eU |
| Impact Strength (Charpy, -40°C)         | 9         | kJ/m <sup>2</sup>      | ISO 179/1eU |
| Notched Impact Strength (Charpy, 23°C)  | 1         | kJ/m <sup>2</sup>      | ISO 179/1eA |
| Notched Impact Strength (Charpy, -40°C) | 1         | kJ/m <sup>2</sup>      | ISO 179/1eA |
| <b>Thermal Properties</b>               |           |                        |             |
| Vicat B50                               | 87        | °C                     | ISO 306     |
| HDT / A (1,8 MPa)                       | 76        | °C                     | ISO 75-1/-2 |
| <b>Rheological Properties</b>           |           |                        |             |
| Melt Index (MVR)                        | 15        | cm <sup>3</sup> /10min | ISO 1133    |
| MVR temperature                         | 200       | °C                     | -           |
| MVR load                                | 5         | kg                     | -           |
| Shrinkage (24h)                         | 0.3 - 0.7 | %                      | ISO 294-4   |
| <b>Physical Properties</b>              |           |                        |             |
| Density                                 | 1060      | kg/m <sup>3</sup>      | ISO 1183    |
| <b>Flammability</b>                     |           |                        |             |
| Flammability (1.5 mm)                   | HB        | class                  | UL 94       |