

## Technical Data Sheet



### ALTECH PS-HI A 1000/901 WT1222-20

|                      |                                                                  |
|----------------------|------------------------------------------------------------------|
| Base Polymer         | Polystyrene, impact                                              |
| Special Features     | easy release (demoulding), injection moulding grade              |
| Market Segment       | Automotive, electrical and electronic, building and construction |
| Application Area     | injection moulded parts                                          |
| Typical Applications | bezels, housings                                                 |

|                               |                                                                                                            |
|-------------------------------|------------------------------------------------------------------------------------------------------------|
| 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 |
| 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                          | 1800      | MPa                    | ISO 527     |
| Tensile Stress at Yield                  | 22        | MPa                    | ISO 527     |
| Tensile Elongation at Yield              | 1.1       | %                      | ISO 527     |
| Tensile Elongation at Break              | 40        | %                      | ISO 527     |
| Impact Strength (Charpy, 23 °C)          | 130       | kJ/m <sup>2</sup>      | ISO 179/1eU |
| Impact Strength (Charpy, -40 °C)         | 95        | kJ/m <sup>2</sup>      | ISO 179/1eU |
| Notched Impact Strength (Charpy, 23 °C)  | 7.5       | kJ/m <sup>2</sup>      | ISO 179/1eA |
| Notched Impact Strength (Charpy, -40 °C) | 2.5       | kJ/m <sup>2</sup>      | ISO 179/1eA |
| <b>Thermal Properties</b>                |           |                        |             |
| Vicat B50                                | 87        | °C                     | ISO 306     |
| HDT / A (1,8 MPa)                        | 73        | °C                     | ISO 75-1/-2 |
| <b>Rheological Properties</b>            |           |                        |             |
| Melt Index (MVR)                         | 11        | 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                                  | 1040      | kg/m <sup>3</sup>      | ISO 1183    |
| <b>Flammability</b>                      |           |                        |             |
| Flammability (1.5 mm)                    | HB        | class                  | UL 94       |