

## Technical Data Sheet



### ALTECH PS A 1000/240 FR

## MOCOM

|                        |                      |
|------------------------|----------------------|
| Base Polymer           | Polystyrene, impact  |
| Filler/Additive System | flame retardant      |
| Special Features       | high impact modified |
| Market Segment         | various              |
| Application Area       | various              |
| Typical Applications   | various              |

Pre-Drying Conditions in an air circulating dryer 60-80 °C  
for 2-4 h

Processing Injection Moulding melt temperature 180-280 °C  
mould temperature 10-70 °C

| Properties                             | Value     | Dimension              | Test Norm    |
|----------------------------------------|-----------|------------------------|--------------|
| <b>Mechanical Properties</b>           |           |                        |              |
| Flexural Modulus                       | 2100      | MPa                    | ISO 178      |
| Flexural Stress (3.5% Strain)          | 37        | MPa                    | ISO 178      |
| Tensile Modulus                        | 2100      | MPa                    | ISO 527      |
| Tensile Stress at Yield                | 25        | MPa                    | ISO 527      |
| Tensile Elongation at Yield            | 1.4       | %                      | ISO 527      |
| Impact Strength (Charpy, 23°C)         | 100       | kJ/m <sup>2</sup>      | ISO 179/1eU  |
| Notched Impact Strength (Charpy, 23°C) | 10        | kJ/m <sup>2</sup>      | ISO 179/1eA  |
| <b>Thermal Properties</b>              |           |                        |              |
| Vicat B50                              | 89        | °C                     | ISO 306      |
| HDT / A (1,8 MPa)                      | 83        | °C                     | ISO 75-1/-2  |
| <b>Rheological Properties</b>          |           |                        |              |
| Melt Index (MVR)                       | 4.5       | 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                                | 1110      | kg/m <sup>3</sup>      | ISO 1183     |
| <b>Flammability</b>                    |           |                        |              |
| Flammability (1.5 mm)                  | V-2       | class                  | UL 94        |
| Glow Wire (GWFI, 960°C, 1.0mm)         | passed    | -                      | DIN EN 60695 |
| Glow Wire (GWFI, 960°C, 2.0mm)         | passed    | -                      | DIN EN 60695 |