

## ALTECH PS FC 1000/507

(Last update: 07.09.2023)

### MOCOM

|                      |                     |
|----------------------|---------------------|
| Base Polymer         | Polystyrene, impact |
| Colour               | white               |
| Market Segment       | packaging           |
| Application Area     | food contact        |
| Typical Applications | various             |

|                               |                                                                                                            |
|-------------------------------|------------------------------------------------------------------------------------------------------------|
| Pre-Drying Conditions         | in a dry air (dessiccant) dryer 60-75 °C<br>for 2-3 h<br>in an air circulating dryer 60-75 °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                                                                                  |
| Minimum Shelf Life            | months <12                                                                                                 |

| Properties                              | Value     | Dimension | Test Norm   |
|-----------------------------------------|-----------|-----------|-------------|
| <b>Mechanical Properties</b>            |           |           |             |
| Flexural Modulus                        | 2000      | MPa       | ISO 178     |
| Flexural Stress (3.5% Strain)           | 39        | MPa       | ISO 178     |
| Tensile Modulus                         | 1900      | MPa       | ISO 527     |
| Tensile Stress at Yield                 | 25        | MPa       | ISO 527     |
| Tensile Elongation at Yield             | 1.5       | %         | ISO 527     |
| Tensile Elongation at Break             | 25        | %         | ISO 527     |
| Impact Strength (Charpy, 23°C)          | 70        | kJ/m²     | ISO 179/1eU |
| Impact Strength (Charpy, -40°C)         | 60        | kJ/m²     | ISO 179/1eU |
| Notched Impact Strength (Charpy, 23°C)  | 9.5       | kJ/m²     | ISO 179/1eA |
| Notched Impact Strength (Charpy, -40°C) | 4         | kJ/m²     | ISO 179/1eA |
| <b>Thermal Properties</b>               |           |           |             |
| Vicat B50                               | 88        | °C        | ISO 306     |
| <b>Rheological Properties</b>           |           |           |             |
| Melt Index (MVR)                        | 9         | cm³/10min | ISO 1133    |
| MVR temperature                         | 200       | °C        | -           |
| MVR load                                | 5         | kg        | -           |
| Shrinkage (24h)                         | 0.4 - 0.7 | %         | ISO 294-4   |
| <b>Physical Properties</b>              |           |           |             |
| Density                                 | 1040      | kg/m³     | ISO 1183    |



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### Additional Information

Different color matches of this material can have significant influence on the suitability according to the various food contact directives (e.g. FDA or EU). Please request a compliance confirmation per colorcode regarding the suitability for the specific food contact application.

### Liability Exclusion

These are guide values and not a specification. The test values mentioned are representative values only and not binding minimum or maximum figures. These test values have been determined on standardised test specimens and can be affected by pigmentation, mould design and processing conditions.

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