

**ALTECH PP-H FC 4940/100 TV40**

(Last update: 01.10.2024)

**MOCOM**

|                        |                                                                                     |
|------------------------|-------------------------------------------------------------------------------------|
| Base Polymer           | Polypropylene Homopolymer                                                           |
| Filler/Additive System | 40 % talcum                                                                         |
| Colour                 | natural color                                                                       |
| Special Features       | high stiffness,high heat stabilised,processing stabilised,easy release (demoulding) |
| Market Segment         | electrical and electronic,building and construction,Personal care                   |
| Application Area       | household goods,food contact,domestic appliances,electrical components              |
| Typical Applications   | kitchenware,functional components,housings                                          |

|                       |                                                                                                                                                                                |
|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Pre-Drying Conditions | in a dry air (dessiccant) dryer 80-120 °C<br>for 2-3 h<br>in an air circulating dryer 80-120 °C<br>for 2-4 h<br>dependant on moisture content<br>max. moisture content <0,10 % |
|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

|                               |                                                           |
|-------------------------------|-----------------------------------------------------------|
| Processing Injection Moulding | melt temperature 200-250 °C<br>mould temperature 20-70 °C |
|-------------------------------|-----------------------------------------------------------|

|         |                           |
|---------|---------------------------|
| Storage | dry, protected from light |
|---------|---------------------------|

|                    |            |
|--------------------|------------|
| Minimum Shelf Life | months <24 |
|--------------------|------------|

| Properties                              | Value | Dimension              | Test Norm   |
|-----------------------------------------|-------|------------------------|-------------|
| <b>Mechanical Properties</b>            |       |                        |             |
| Flexural Modulus                        | 5100  | MPa                    | ISO 178     |
| Flexural Stress (3.5% Strain)           | 59    | MPa                    | ISO 178     |
| Tensile Modulus                         | 4700  | MPa                    | ISO 527     |
| Tensile Stress at Yield                 | 33    | MPa                    | ISO 527     |
| Tensile Elongation at Yield             | 3     | %                      | ISO 527     |
| Tensile Elongation at Break             | 6.5   | %                      | ISO 527     |
| Impact Strength (Charpy, 23°C)          | 26    | kJ/m <sup>2</sup>      | ISO 179/1eU |
| Impact Strength (Charpy, -40°C)         | 12    | kJ/m <sup>2</sup>      | ISO 179/1eU |
| Notched Impact Strength (Charpy, 23°C)  | 2.5   | kJ/m <sup>2</sup>      | ISO 179/1eA |
| Notched Impact Strength (Charpy, -40°C) | 1.5   | kJ/m <sup>2</sup>      | ISO 179/1eA |
| <b>Thermal Properties</b>               |       |                        |             |
| Vicat B50                               | 105   | °C                     | ISO 306     |
| DSC (Melt Point)                        | 166   | °C                     | ISO 11357   |
| <b>Rheological Properties</b>           |       |                        |             |
| Melt Index (MVR)                        | 3.5   | cm <sup>3</sup> /10min | ISO 1133    |
| MVR temperature                         | 230   | °C                     | -           |
| MVR load                                | 2.16  | kg                     | -           |



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|                             |           |   |           |
|-----------------------------|-----------|---|-----------|
| Shrinkage (lengthwise, 24h) | 1 - 1.4   | % | ISO 294-4 |
| Shrinkage (lateral, 24h)    | 0.8 - 1.2 | % | ISO 294-4 |

### Physical Properties

|         |      |                   |          |
|---------|------|-------------------|----------|
| Density | 1230 | kg/m <sup>3</sup> | ISO 1183 |
|---------|------|-------------------|----------|

### 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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