

## Technical Data Sheet



### CELLIDOR CP FC 400.01-08

(Last update: 16.01.2025)



|                        |                                      |
|------------------------|--------------------------------------|
| Base Polymer           | CelluloseAcetatePropionate           |
| Filler/Additive System | 8 % phthalate-free plasticiser       |
| Application Area       | injection moulded parts,food contact |
| Typical Applications   | toothbrushes                         |

|                               |                                                                                                                    |
|-------------------------------|--------------------------------------------------------------------------------------------------------------------|
| Pre-Drying Conditions         | in an air circulating dryer 60-90 °C<br>for 2-4 h<br>dependant on moisture content<br>0,15 % max. moisture content |
| Processing Injection Moulding | melt temperature 180-230 °C<br>mould temperature 40-80 °C                                                          |
| Storage                       | dry, protected from light                                                                                          |

| Properties                              | Value     | Dimension              | Test Norm   |
|-----------------------------------------|-----------|------------------------|-------------|
| <b>Mechanical Properties</b>            |           |                        |             |
| Flexural Modulus                        | 2000      | MPa                    | ISO 178     |
| Flexural Stress (3.5% Strain)           | 52        | MPa                    | ISO 178     |
| Tensile Modulus                         | 1900      | MPa                    | ISO 527     |
| Tensile Stress at Yield                 | 47        | MPa                    | ISO 527     |
| Tensile Elongation at Yield             | 4.5       | %                      | ISO 527     |
| Tensile Elongation at Break             | 12        | %                      | ISO 527     |
| Impact Strength (Charpy, 23°C)          | 175       | kJ/m <sup>2</sup>      | ISO 179/1eU |
| Impact Strength (Charpy, -40°C)         | 165       | kJ/m <sup>2</sup>      | ISO 179/1eU |
| Notched Impact Strength (Charpy, 23°C)  | 15        | kJ/m <sup>2</sup>      | ISO 179/1eA |
| Notched Impact Strength (Charpy, -40°C) | 5.5       | kJ/m <sup>2</sup>      | ISO 179/1eA |
| Ball Indentation Hardness H132/30       | 95        | MPa                    | ISO 2039-1  |
| <b>Thermal Properties</b>               |           |                        |             |
| Vicat B50                               | 100       | °C                     | ISO 306     |
| HDT / A (1,8 MPa)                       | 100       | °C                     | ISO 75-1/-2 |
| <b>Rheological Properties</b>           |           |                        |             |
| Melt Index (MVR)                        | 3         | cm <sup>3</sup> /10min | ISO 1133    |
| MVR temperature                         | 210       | °C                     | -           |
| MVR load                                | 2.16      | kg                     | -           |
| Shrinkage (24h)                         | 0.8 - 1.1 | %                      | ISO 294-4   |
| <b>Physical Properties</b>              |           |                        |             |
| Density                                 | 1200      | 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.



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