

## Technical Data Sheet



### CELLIDOR B 500-10

(Last update: 20.03.2024)



|                        |                                 |
|------------------------|---------------------------------|
| Base Polymer           | CelluloseAcetateButyrate        |
| Filler/Additive System | 10 % phthalate-free plasticiser |
| Special Features       | low odour                       |
| Typical Applications   | various                         |

|                               |                                                                                                                    |
|-------------------------------|--------------------------------------------------------------------------------------------------------------------|
| 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                       | 1600      | MPa                    | ISO 178     |
| Flexural Stress (3.5% Strain)          | 44        | MPa                    | ISO 178     |
| Tensile Modulus                        | 1600      | MPa                    | ISO 527     |
| Tensile Stress at Yield                | 37        | MPa                    | ISO 527     |
| Tensile Elongation at Yield            | 4.1       | %                      | ISO 527     |
| Tensile Elongation at Break            | 15        | %                      | ISO 527     |
| Impact Strength (Charpy, 23°C)         | no break  | kJ/m <sup>2</sup>      | ISO 179/1eU |
| Notched Impact Strength (Charpy, 23°C) | 24        | kJ/m <sup>2</sup>      | ISO 179/1eA |
| Ball Indentation Hardness H132/30      | 75        | MPa                    | ISO 2039-1  |
| <b>Thermal Properties</b>              |           |                        |             |
| Vicat B50                              | 85        | °C                     | ISO 306     |
| HDT / A (1,8 MPa)                      | 88        | °C                     | ISO 75-1/-2 |
| <b>Rheological Properties</b>          |           |                        |             |
| Melt Index (MVR)                       | 5         | 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                                | 1180      | kg/m <sup>3</sup>      | ISO 1183    |

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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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