

## Technical Data Sheet



### CELLIDOR B 500-20

(Last update: 20.07.2021)



|                        |                                 |
|------------------------|---------------------------------|
| Base Polymer           | CelluloseAcetateButyrate        |
| Filler/Additive System | 20 % phthalate-free plasticiser |
| Special Features       | low odour                       |
| Typical Applications   | injection moulded parts         |

|                               |                                                                                                                    |
|-------------------------------|--------------------------------------------------------------------------------------------------------------------|
| Pre-Drying Conditions         | in an air circulating dryer 50-80 °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                       | 900         | MPa                    | ISO 178     |
| Flexural Stress (3.5% Strain)          | 24          | MPa                    | ISO 178     |
| Tensile Modulus                        | 900         | MPa                    | ISO 527     |
| Tensile Stress at Yield                | 19          | MPa                    | ISO 527     |
| Tensile Elongation at Yield            | 3.5         | %                      | ISO 527     |
| Tensile Elongation at Break            | 50          | %                      | ISO 527     |
| Impact Strength (Charpy, 23°C)         | no break    | kJ/m <sup>2</sup>      | ISO 179/1eU |
| Notched Impact Strength (Charpy, 23°C) | 35          | kJ/m <sup>2</sup>      | ISO 179/1eA |
| Ball Indentation Hardness H132/30      | 35          | MPa                    | ISO 2039-1  |
| <b>Thermal Properties</b>              |             |                        |             |
| Vicat B50                              | 60          | °C                     | ISO 306     |
| HDT / A (1,8 MPa)                      | 60          | °C                     | ISO 75-1/-2 |
| <b>Rheological Properties</b>          |             |                        |             |
| Melt Index (MVR)                       | 30          | cm <sup>3</sup> /10min | ISO 1133    |
| MVR temperature                        | 210         | °C                     | -           |
| MVR load                               | 2.16        | kg                     | -           |
| Shrinkage (24h)                        | 0.45 - 0.75 | %                      | ISO 294-4   |
| <b>Physical Properties</b>             |             |                        |             |
| Density                                | 1160        | kg/m <sup>3</sup>      | ISO 1183    |

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