

## Technical Data Sheet



### CELLIDOR CP 300-18

|                        |                                 |
|------------------------|---------------------------------|
| Base Polymer           | CelluloseAcetatePropionate      |
| Filler/Additive System | 18 % phthalate-free plasticiser |
| Application Area       | injection moulded parts         |
| Typical Applications   | various                         |

|                       |                                                                                                                                             |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------|
| Pre-Drying Conditions | in a dry air (dessiccant) dryer 50-80 °C<br>for 1-2 h<br>in an air circulating dryer 50-80 °C<br>for 2-4 h<br>dependant on 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                        | 1200      | MPa                    | ISO 178     |
| Flexural Stress (3.5% Strain)           | 32        | MPa                    | ISO 178     |
| Tensile Modulus                         | 1300      | MPa                    | ISO 527     |
| Tensile Stress at Yield                 | 26        | MPa                    | ISO 527     |
| Tensile Elongation at Yield             | 3.5       | %                      | ISO 527     |
| Tensile Elongation at Break             | 40        | %                      | ISO 527     |
| Impact Strength (Charpy, 23°C)          | no break  | kJ/m <sup>2</sup>      | ISO 179/1eU |
| Impact Strength (Charpy, -40°C)         | no break  | kJ/m <sup>2</sup>      | ISO 179/1eU |
| Notched Impact Strength (Charpy, 23°C)  | 40        | kJ/m <sup>2</sup>      | ISO 179/1eA |
| Notched Impact Strength (Charpy, -40°C) | 11        | kJ/m <sup>2</sup>      | ISO 179/1eA |
| Ball Indentation Hardness H132/30       | 50        | MPa                    | ISO 2039-1  |
| <b>Thermal Properties</b>               |           |                        |             |
| Vicat B50                               | 75        | °C                     | ISO 306     |
| HDT / A (1,8 MPa)                       | 75        | °C                     | ISO 75-1/-2 |
| <b>Rheological Properties</b>           |           |                        |             |
| Melt Index (MVR)                        | 20        | cm <sup>3</sup> /10min | ISO 1133    |
| MVR temperature                         | 210       | °C                     | -           |
| MVR load                                | 2.16      | kg                     | -           |
| Shrinkage (24h)                         | 0.6 - 0.9 | %                      | ISO 294-4   |
| <b>Physical Properties</b>              |           |                        |             |
| Density                                 | 1170      | kg/m <sup>3</sup>      | ISO 1183    |