

## Technical Data Sheet



### CELLIDOR CP 300-10

Base Polymer	CelluloseAcetatePropionate
Filler/Additive System	10 % phthalate-free plasticiser
Typical Applications	toothbrushes,various

Pre-Drying Conditions in an air circulating dryer 60-90 °C  
for 2-4 h  
dependant on moisture content  
0,15 % max. moisture content

Processing Injection Moulding melt temperature 180-230 °C  
mould temperature 40-80 °C

Storage dry, protected from light

Properties	Value	Dimension	Test Norm
<b>Mechanical Properties</b>			
Flexural Modulus	1900	MPa	ISO 178
Flexural Stress (3.5% Strain)	50	MPa	ISO 178
Tensile Modulus	1950	MPa	ISO 527
Tensile Stress at Yield	45	MPa	ISO 527
Tensile Elongation at Yield	4.1	%	ISO 527
Tensile Elongation at Break	15	%	ISO 527
Impact Strength (Charpy, 23°C)	190	kJ/m <sup>2</sup>	ISO 179/1eU
Notched Impact Strength (Charpy, 23°C)	20	kJ/m <sup>2</sup>	ISO 179/1eA
Ball Indentation Hardness H358/30	65	MPa	ISO 2039-1
<b>Thermal Properties</b>			
Vicat B50	96	°C	ISO 306
HDT / A (1,8 MPa)	92	°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)	0.7 - 0.9	%	ISO 294-4
<b>Physical Properties</b>			
Density	1200	kg/m <sup>3</sup>	ISO 1183