

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 for 1-2 h in an air circulating dryer 50-80 °C for 2-4 h dependant on moisture content
Processing Injection Moulding	melt temperature 180-230 °C mould temperature 40-80 °C
Storage	dry, protected from light

<b>Properties</b>	<b>Value</b>	<b>Dimension</b>	<b>Test Norm</b>
<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