

Technical Data Sheet



CELLIDOR CP FC 400.01-08

Base Polymer	CelluloseAcetatePropionate
Filler/Additive System	8 % phthalate-free plasticiser
Application Area	injection moulded parts,food contact
Typical Applications	toothbrushes

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
Mechanical Properties			
Flexural Modulus	2000	MPa	ISO 178
Flexural Stress (3.5% Strain)	52	MPa	ISO 178
Tensile Modulus	1900	MPa	ISO 527
Tensile Stress at Yield	47	MPa	ISO 527
Tensile Elongation at Yield	4.5	%	ISO 527
Tensile Elongation at Break	12	%	ISO 527
Impact Strength (Charpy, 23°C)	175	kJ/m ²	ISO 179/1eU
Impact Strength (Charpy, -40°C)	165	kJ/m ²	ISO 179/1eU
Notched Impact Strength (Charpy, 23°C)	15	kJ/m ²	ISO 179/1eA
Notched Impact Strength (Charpy, -40°C)	5.5	kJ/m ²	ISO 179/1eA
Ball Indentation Hardness H132/30	95	MPa	ISO 2039-1
Thermal Properties			
Vicat B50	100	°C	ISO 306
HDT / A (1,8 MPa)	100	°C	ISO 75-1/-2
Rheological Properties			
Melt Index (MVR)	3	cm ³ /10min	ISO 1133
MVR temperature	210	°C	-
MVR load	2.16	kg	-
Shrinkage (24h)	0.8 - 1.1	%	ISO 294-4
Physical Properties			
Density	1200	kg/m ³	ISO 1183