Technical Data Sheet

Cellidor®

MOCOM

CELLIDOR B 501-10

Base Polymer	CelluloseAcetateButyrate
Filler/Additive System	phthalate-free plasticiser
Special Features	good chemical resistance,high light transmission,high surface quality,processing stabilised,injection moulding grade,good haptics,good weathering resistance
Market Segment	various
Application Area	various
Typical Applications	various

Pre-Drying Conditions	in a dry air (dessiccant) dryer 50-70 °C for 1-2 h in an air circulating dryer 50-70 °C for 2-4 h
Processing Injection Moulding	melt temperature 190-235 °C mould temperature 40-80 °C
Storage	dry, protected from light

Properties	Value	Dimension	Test Norm
Mechanical Properties			
Flexural Modulus	1650	MPa	ISO 178
Flexural Stress (3.5% Strain)	42	MPa	ISO 178
Tensile Modulus	1600	MPa	ISO 527
Tensile Stress at Yield	38	MPa	ISO 527
Tensile Elongation at Yield	4	%	ISO 527
Tensile Elongation at Break	13	%	ISO 527
Impact Strength (Charpy, 23°C)	no break	kJ/m²	ISO 179/1eU
Impact Strength (Charpy, -40°C)	no break	kJ/m²	ISO 179/1eU
Notched Impact Strength (Charpy, 23°C)	24	kJ/m²	ISO 179/1eA
Notched Impact Strength (Charpy, -40°C)	4	kJ/m²	ISO 179/1eA
Ball Indentation Hardness H132/30	65	MPa	ISO 2039-1
Thermal Properties			
Vicat B50	85	°C	ISO 306
HDT / A (1,8 MPa)	85	°C	ISO 75-1/-2
Rheological Properties			
Melt Index (MVR)	9	cm³/10min	ISO 1133
MVR temperature	210	°C	-
MVR load	2.16	kg	-
Shrinkage (24h)	0.4 - 0.7	%	ISO 294-4
Physical Properties			
Density	1170	kg/m³	ISO 1183