

Technical Data Sheet



**CELLIDOR B 5111-10**

Base Polymer	CelluloseAcetateButyrate
Filler/Additive System	phthalate-free plasticiser
Special Features	good chemical resistance,high surface quality,high surface gloss,good haptics,injection moulding grade,high light transmission,processing stabilised,UV stabilised,weather stabilised
Market Segment	building and construction
Application Area	injection moulded parts
Typical Applications	thick-walled parts

Pre-Drying Conditions	in a dry air (dessiccant) dryer 50-70 °C for 2-3 h in an air circulating dryer 50-80 °C for 2-4 h
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	1500	MPa	ISO 178
Flexural Stress (3.5% Strain)	40	MPa	ISO 178
Tensile Modulus	1500	MPa	ISO 527
Tensile Stress at Yield	36	MPa	ISO 527
Tensile Elongation at Yield	4.2	%	ISO 527
Tensile Elongation at Break	16	%	ISO 527
Impact Strength (Charpy, 23°C)	200	kJ/m <sup>2</sup>	ISO 179/1eU
Impact Strength (Charpy, -40°C)	130	kJ/m <sup>2</sup>	ISO 179/1eU
Notched Impact Strength (Charpy, 23°C)	25	kJ/m <sup>2</sup>	ISO 179/1eA
Notched Impact Strength (Charpy, -40°C)	7.5	kJ/m <sup>2</sup>	ISO 179/1eA
Ball Indentation Hardness H132/30	73	MPa	ISO 2039-1
<b>Thermal Properties</b>			
Vicat B50	88	°C	ISO 306
HDT / A (1,8 MPa)	92	°C	ISO 75-1/-2
<b>Rheological Properties</b>			
Melt Index (MVR)	6	cm <sup>3</sup> /10min	ISO 1133
MVR temperature	210	°C	-
MVR load	2.16	kg	-
<b>Physical Properties</b>			
Density	1190	kg/m <sup>3</sup>	ISO 1183