

Technical Data Sheet



CELLIDOR CP 410-12

Base Polymer	CelluloseAcetatePropionate
Filler/Additive System	phthalate-free plasticiser
Special Features	high surface quality,high surface gloss,good haptics,injection moulding grade
Application Area	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 max. moisture content <0,15 %
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	1700	MPa	ISO 178
Flexural Stress (3.5% Strain)	45	MPa	ISO 178
Tensile Modulus	1700	MPa	ISO 527
Tensile Stress at Yield	38	MPa	ISO 527
Tensile Elongation at Yield	4.1	%	ISO 527
Tensile Elongation at Break	18	%	ISO 527
Impact Strength (Charpy, 23°C)	210	kJ/m ²	ISO 179/1eU
Impact Strength (Charpy, -40°C)	25	kJ/m ²	ISO 179/1eU
Notched Impact Strength (Charpy, 23°C)	23	kJ/m ²	ISO 179/1eA
Notched Impact Strength (Charpy, -40°C)	6.5	kJ/m ²	ISO 179/1eA
Ball Indentation Hardness H132/30	75	MPa	ISO 2039-1
Thermal Properties			
Vicat B50	90	°C	ISO 306
HDT / A (1,8 MPa)	90	°C	ISO 75-1/-2
Rheological Properties			
Melt Index (MVR)	6	cm ³ /10min	ISO 1133
MVR temperature	210	°C	-
MVR load	2.16	kg	-
Shrinkage (24h)	0.7 - 1	%	ISO 294-4
Physical Properties			
Density	1200	kg/m ³	ISO 1183