

Technical Data Sheet



CELLIDOR CP 2825-11

Base Polymer	CelluloseAcetatePropionate
Filler/Additive System	phthalate-free plasticiser,light stabiliser
Special Features	easy flow,high toughness,high stiffness,UV stabilised
Market Segment	various,sport and leisure
Application Area	various,sports equipment
Typical Applications	various,spectacle lenses

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 dependant on moisture content
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	1900	MPa	ISO 178
Flexural Stress (3.5% Strain)	50	MPa	ISO 178
Tensile Modulus	1800	MPa	ISO 527
Tensile Stress at Yield	40	MPa	ISO 527
Tensile Elongation at Yield	4	%	ISO 527
Tensile Elongation at Break	14	%	ISO 527
Impact Strength (Charpy, 23°C)	225	kJ/m ²	ISO 179/1eU
Impact Strength (Charpy, -40°C)	170	kJ/m ²	ISO 179/1eU
Notched Impact Strength (Charpy, 23°C)	20	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	67	MPa	ISO 2039-1
Thermal Properties			
Vicat B50	95	°C	ISO 306
HDT / A (1,8 MPa)	100	°C	ISO 75-1/-2
Rheological Properties			
Melt Index (MVR)	5	cm ³ /10min	ISO 1133
MVR temperature	210	°C	-
MVR load	2.16	kg	-
Shrinkage (24h)	0.4 - 0.7	%	ISO 294-4
Physical Properties			
Density	1200	kg/m ³	ISO 1183