



# MOCOM

## Cellidor® Natural talent

**Cellidor® – the name refers to thermoplastics that have already been on the market for nearly a hundred years, yet cellulose ester-based compounds are anything but outdated.**

Based on cellulose drawn from sustainable, natural resources, Cellidor® is a partially bio-based plastic that has been established in the market for decades and has already demonstrated its value in countless applications.

Surface, color and feel: Cellidor® is an amorphous thermoplastic offering a very high degree of light transmission. Its surface is characterized by an elegant gloss with brilliant depth of color and a pleasant feel. It also has a self-polishing effect.

Mechanics: Cellidor® features particularly high impact strength even at low temperatures. Its toughness and stiffness can be adjusted to make it suitable for a broad spectrum of applications.

Durability: Cellidor® is resistant to water, grease, mineral oils and sweat. The right additives can easily make it UV and weather-resistant, ensuring its stability in permanent outdoor use. Cellidor®'s optical and mechanical properties thus remain intact even after long-term use.

Processing: The Cellidor® portfolio includes products for both injection molding and extrusion.

### Cellidor®: the advantages at a glance

- Cellulose ester is from sustainable cellulose sources
- Exceptional transparency
- Brilliant depth of color
- Self-polishing effect ensures permanently high surface quality
- High impact strength
- Special grades suitable for UV and weather resistance
- No sensitivity to stress cracking

## Cellidor® CP

- Cellulose-Acetate-Propionate (CP)
- Standards with 8 - 20 % phthalate-free plasticizer
- Food compliant grades available

## Cellidor® B

- Cellulose-Acetate-Butyrate (CAB)
- Standards with 5 - 20 % phthalate-free plasticizer
- UV- and weather resistant grades for permanent outdoor use

Material	Tensile modulus ISO 527-1/-2 (MPa)	Tensile stress at yield ISO 527-1/-2 (MPa)	Tensile strength at break ISO 527-1/-2 (MPa)	Tensile elonga- tion at break ISO 527-1/-2 (%)	Charpy impact strength (23 °C) ISO 179/1eU (kJ/m <sup>2</sup> )	Charpy notched impact strength (23 °C) ISO 179/1eA (kJ/m <sup>2</sup> )	Vicat B50 ISO 306 (°C)	Application
Cellidor® B 531-07	1700	42	40	15	no break	13	95	Pipe extrusion, roof ledges
Cellidor® B 631-10	1600	37	33	20	no break	18	90	Profiles, pipes, trim strips
Cellidor® CP 2810-11	1500	40	35	20	no break	18	96	Ski goggles
Cellidor® CP 300-10	1950	45	38	15	no break	20	96	Parts for hearing aids
Cellidor® CP 300-13	1500	35	32	20	no break	25	85	Cosmetical products and office supplies
Cellidor® CP 300-18	1300	28	30	40	no break	30	75	Glasses frames
Cellidor® CP 310-10	2100	40	35	15	no break	15	95	Thick-walled body trims
Cellidor® CP 400-10	1700	40	35	30	no break	20	93	Writing utensils, oil tanks, tool grips
Cellidor® CP 400-17	1300	28	28	22	no break	30	72	Safety goggles
Cellidor® CP 410-10	1800	35	43	12	no break	28	96	Screw driver handles
Cellidor® CP 410-18	1350	26	24	30	no break	35	70	Fishing baits

Additional products and information are available on request.

## Cellidor® is already in use in many industries, for example:

- Writing utensils
- Office supplies
- Glasses
- Cosmetic products
- Tool and knife handles
- Oil-contacting containers and parts
- Profiles (including advertising industry)
- Transparent pipes
- Jewelry
- Electronics (e. g., remote controls)

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