

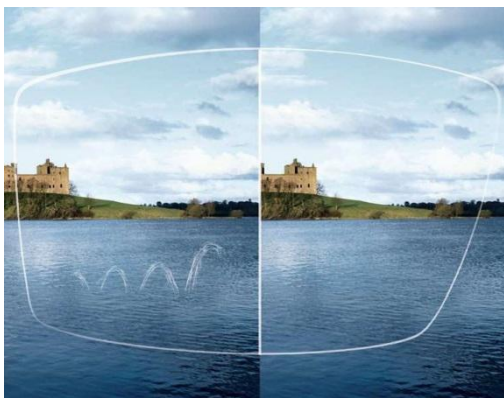
## PRODUCT DATASHEET

# WeeTect Polycarbonate Coating (WPC)



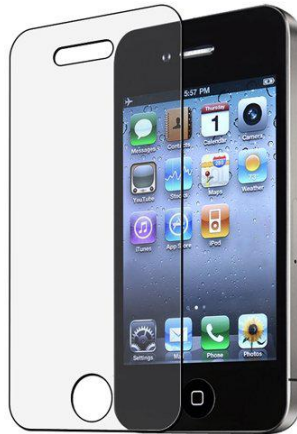
It is true that Polycarbonate is one of the most capable plastic with high impact resistance and optical clarity. It can be produced into extruded polycarbonate sheets and injected helmet visors. However, polycarbonate is not perfect. It's too soft to resist scratches. Polycarbonate coating becomes a critical element to support polycarbonate products to apply into several high end applications.

WeeTect Polycarbonate Coating (WPC) includes anti-fog coating, anti-scratch coating, abrasion resistant coating, anti-fingerprint coating, anti-bacteria coating, anti-glare coating, anti-graffiti coating and more. It can strongly support both extruded polycarbonate sheet and injected visors to be the perfect candidates of eye and face protection products such as helmet visor, safety face shield, ski and racing goggles lens, safety lenses, UV face shield, sanitary mask, medical face shield and more. It also is applied to glazing where need superior impact resistance such as front and side windows of reach truck and forklift truck cabins in cold storage and more.



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# WeeTect Polycarbonate Coating (WPC)



### Advantages:

- Better optical visibility for both PC coatings and sheets
- Free combination for different polycarbonate coatings
- High end dipping and flow coating processes
- Much more cost competitive
- Complaint with ANSI Z87.1, EN166 and EN170
- Other custom options are acceptable

### WeeTect Polycarbonate Coating (WPC) Polycarbonate Sheet and Film Options

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## WeeTect Polycarbonate Coating (WPC)

Thickness (mm)	Width (mm)	Length (mm)	Remark
0.125	930	400,000	Optical Grade
0.15	930	350,000	Optical Grade
0.25	930	300,000	Optical Grade
0.3	930	300,000	Optical Grade
0.5	930	160,000	Optical Grade
0.5	915	1,830	Optical Grade
0.6	915	1,830	Optical Grade
0.7	915	1,830	Optical Grade
0.8	915	1,830	Optical Grade
1	915	1,830	Optical Grade
1.5	1,220	1,830	Optical Grade
2	1,220	1,830	Optical Grade
3	1,220	1,830	Optical Grade
4	1,220	1,830	Optical Grade
6	1,220	1,830	Clear
8	1,220	1,830	Clear
10	1,220	1,830	Clear
12	1,220	1,830	Clear

- WeeTect can customize dimensions based on your requirement for polycarbonate coating.

WeeTect Polycarbonate Coating (WPC) Polycarbonate Sheet Technical Data:

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## WeeTect Polycarbonate Coating (WPC)

Item	Property	Test Method	U/M	Value
Optical	UV Resistant (380nm)	EN170	%	99.99%
	Diopter	ECE 22.05	D	<0.125
	Haze	ASTM D 1003	%	0.37
	Fog Free time	ECE22.05/ECE324	s	>22
	Fog Free time	Freezing Test	s	no fogging
Mechanical	Hardness 1KG	ANSI Z87.1 2010	H	1
	High velocity impact	ANSI Z87.1 2010	ft/s	>300
	Cross-Cut tape test	ISO 527	NA	Pass
	Elongation, yield	ISO 527	%	7
	Elongation, break	ISO 527	%	110
	Tensile stress, yield	ISO 527	MPa	60
	Tensile modulus MPa	ISO 527	MPa	2300
	Flexural strength, yield	ISO 178	MPa	100
	Flexural modulus	ISO 178	MPa	2500
	Izod notched impact, 20 °C	ANSI Z87.1 2010	KJ/m <sup>2</sup>	65
Physical	Gravity	ISO 1183	g/cm <sup>3</sup>	1.2
	Water absorption, 24 hours	ANSI Z87.1 2010	%	0.15
Thermal	Mold shrinkage	ISO 11359	%	0.5-0.7
	Thermal expansion	ISO 11357	1/°C	7x10 <sup>-5</sup>
	Vicat Softening Temp., Rate B / 120 (base sheet)	ASTM D5470	°C	150
	HDT, 0.45 MPa	ISO 11357	°C	138