

PRODUCT DATASHEET

WeeTect Photochromic Lenses (WPL)



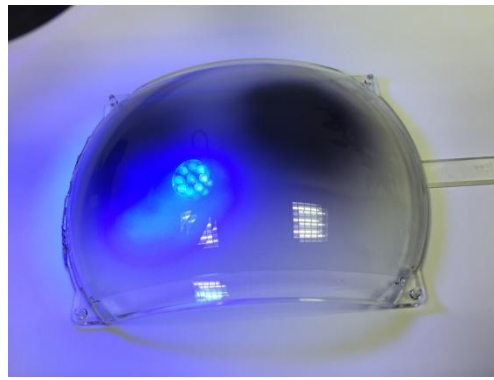
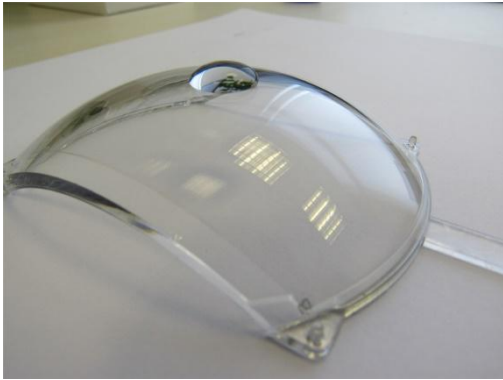
WeeTect Photochromic Lenses (WPL) also names photochromatic lenses, transitional lenses, photogray lenses or reaction lenses. It is made from photochromic film and polycarbonate lenses co-injection molding or photochromic coating on polycarbonate lenses. WeeTect Photochromic Lenses (WPL) can be applied to photochromic sunglasses, photochromic goggles, transition glasses, photochromic glasses, transition sunglasses, photochromic cycling glasses, transition eyeglasses, photochromatic lenses, photochromic spectacles, photochromic safety glasses, transition eyeglasses and other photochromic eyewear.

As WeeTect is a capable photochromic lens manufacturer, WeeTect Photochromic Lenses (WPL) is one of the best photochromic lenses with a super high VLT when it is photochromic clear in house, and turns to photochromic tint on exposure to UV light quickly. In advance, WeeTect Photochromic Lenses (WPL) can be added more surface treatment such as anti-fog coating, anti-scratch coating, anti-fingerprint coating and more. As an eye and face protection solution provider, WeeTect holds the know-how of photochromic coating and co-mold photochromic technology. We are glad to develop other special combination such as photochromic polarized sunglasses or prescription transition lenses to support your niche market.



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Photochromic Lenses Review of Advantages:

- Convenience: you only need to offer your customer one pair of photochromic sunglasses for the varying light conditions.
- UV protection: WeeTect Photochromic Lenses (WPL) absorbs 100% harmful UV radiation.
- One stop solution: WeeTect Photochromic Lenses (WPL) also offers anti-fog coating, hard coating, abrasion resistant coating, anti-fingerprint coating or other color tinting.
- Reduce cost: WeeTect is a capable photochromic lens manufacturer to share cost advantage to you.

WeeTect Photochromic Lenses (WPL) Technical Data

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Item	Property	Test Method	U/M	Value
Optical	UV Resistant	EN170	%	99.99%
	Haze	ASTM D 1003	%	0.37
	VLT Before Photochromic Tint	ASTM D 1003	%	87
	VLT Fully Photochromic Tint	ASTM D 1003	%	20
	Fully Photochromic Tint Time	WeeTect Method	Second	22
	Change Back to Photochromic Clear Time	WeeTect Method	Minutes	3
	Fog Free time	ECE22.05/ECE324	s	>22
	Fog Free time	Freezing Test	s	no fogging
Mechanical	Hardness 1KG	ISO 178	H	1
	High velocity impact	ANSI Z87.1 2010	ft/s	>300
	Cross-Cut tape test	ASTM D 1000	NA	Pass
	Elongation, yield % 7	ISO 527	%	7
	Elongation, break ISO 527 % 110	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	ISO 178	Mpa	2500
	Izod notched impact, 20 °C	ISO 180-1A	KJ/m ²	65
Physical	Gravity	ISO 1183	g/cm ³	1.2
	Water absorption, 24 hours	ISO 62	%	0.15
Thermal	Mold shrinkage	ISO 527	%	0.5-0.7
	Thermal expansion	ASTM D696	1/°C	7x10 ⁻⁵
	Vicat Softening Temp., Rate B / 120 (base sheet)	ISO 306	°C	150
	HDT, 0.45 MPa	ISO 75/Be	°C	138