

PRODUCT DATASHEET

## WeeTect UV Face Shield (WUVFS)

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WeeTect UV face shield (WUVFS) also names UV protection face shield which applies to high end grinding face shield, chemical face shield, full face sun visor, short circuit electric protective face shield and more. It also can make anti fog coating, hard coating or mirror coating on the surface. WeeTect UV face shield is complaint with ANSI Z87.1, EN166 and EN170.

WeeTect UV face shield (WUVFS) is a polycarbonate flat sheet or injection molding face shield hydrophilic coated and thermos-solidified with UV resistant 99.99% that comes in two forms—either anti-fog properties on both sides or anti-fog and anti-scratch properties on two sides. It boasts the following qualities: UV380 resistant 99.99% (UV400 as an option), fog-free, scratch resistant, optical clarity, high impact resistant. Having a sustainable performance increases the longevity of the product and reduces significant product manufacturing costs. WeeTect

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UV face shield (WUVFS) is popularly used in the sun glare and bright light conditions. It provides protection against sun glare, short circuit electric arc, electromagnetic energy, plasma, fragments and a spray of molten materials, great protection from flying debris from cutting, grinding, woodworking, lawn care and hazards from mechanical work, do it yourself projects, hobbies, liquid chemical splash; any task where you need to protect your eyes and face.



- If preferred, WeeTect also can deliver UV resistant anti fog anti scratch polycarbonate sheet directly

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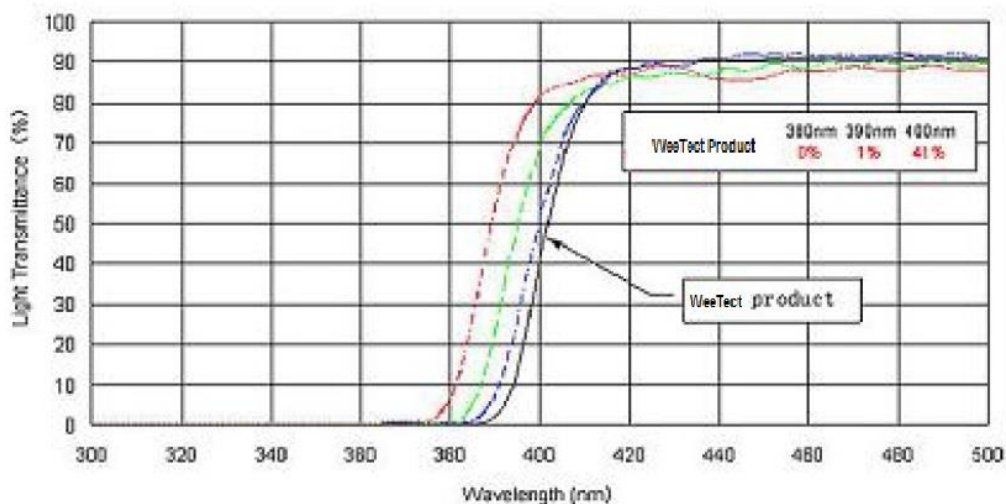
# WeeTect UV Face Shield (WUVFS)

WeeTect UV Face Shield (WUVFS) is manufactured in compliance with EN 166:2001, EN 170:2001 and EN

61482-1-2

- UV protection for W1 Face shield 2-1.2
- Optical class 1
- Medium energy impact strength B
- Resistance to electric arc 8
- Parameters of electric arc 4kA/0,5s; 135kJ/m - class 1
- Protection against the particles of liquid metal 9
- Resistance to damage caused by small particles K
- Resistance to fogging N

## WeeTect UV face shield (WUVFS) UV resistant spectral transmittance performance



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Item	Property	Test Method	U/M	Value
<b>Optical</b>	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
<b>Mechanical</b>	Hardness 1KG	ANSI Z87.1 2010	H	1
	High velocity impact	ANSI Z87.1 2010	ft/s	>300
	Cross-Cut tape test	ANSI Z87.1 2010	NA	Pass
	Elongation, yield % 7	ANSI Z87.1 2010	%	7
	Elongation, break ISO 527 % 110	ANSI Z87.1 2010	%	110
	Tensile stress, yield	ANSI Z87.1 2010	Mpa	60
	Tensile modulus MPa	ANSI Z87.1 2010	Mpa	2300
	Flexural strength, yield	ANSI Z87.1 2010	Mpa	100
	Flexural modulus ISO 178 MPa 2500	ANSI Z87.1 2010	Mpa	2500
	Izod notched impact, 20 ° C	ANSI Z87.1 2010	KJ/m <sup>2</sup>	65
<b>Physical</b>	Gravity	ANSI Z87.1 2010	g/cm <sup>3</sup>	1.2
	Water absorption, 24 hours	ANSI Z87.1 2010	%	0.15
<b>Thermal</b>	Mold shrinkage	ANSI Z87.1 2010	%	0.5-0.7
	Thermal expansion	ANSI Z87.1 2010	1/ °C	7x10 <sup>-5</sup>
	Vicat Softening Temp., Rate B / 120(base sheet)	ANSI Z87.1 2010	°C	150
	HDT, 0.45 MPa	ANSI Z87.1 2010	°C	138