PRODUCT DATASHEET

WeeTect Bionic Face Shield (WBFS)

WeeTect bionic face shield (WBFS) is a custom injection molding face shield with bionic design which can realize the design from customer. It has an outstanding 180 degree field of vision with no distortion and is complaint with EN166 and ANSI Z87.1 2003 which can applies to grinding face shield, chemical face shield and other mechanical work protection.

WeeTect bionic face shield (WBFS) has excellent optics combined with increased visibility. It boasts the following qualities: fog-free, scratch resistant, optical clarity (class 1), high impact resistant (resists a 6 mm, 0.86 g ball at 120 m/s). Having a sustainable performance increases the longevity of the product and reduces significant product manufacturing cost, WeeTect bionic face shield (WBFS) is popularly used in head protection. It provides great

PRODUCT DATASHEET

WeeTect Bionic Face Shield (WBFS)

protection against 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.




Advantages:

- Bionic design with comfortable fit
- Fog and abrasion resistant coated
- Optical clarity with low distortion
- Superior impact resistant
- Much more cost competitive
- More custom flexible

Address: #2 Building, East Jiangtian Road No. 92, Song Jiang, Shanghai, China
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WeeTect Bionic Face Shield (WBFS) Datasheet

Item	Property	Test Method	U/M	Value
Optical	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	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/m²	65
Physical	Gravity	ANSI Z87.1 2010	g/cm³	1.2
	Water absorption, 24 hours	ANSI Z87.1 2010	%	0.15
Thermal	Mold shrinkage	ANSI Z87.1 2010	%	0.5-0.7
	Thermal expansion	ANSI Z87.1 2010	1/ °C	7x10-5
	Vicat Softening Temp., Rate B / 120(base sheet)	ANSI Z87.1 2010	°C	150
	HDT, 0.45 MPa	ANSI Z87.1 2010	°C	138

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