

PRODUCT DATASHEET

WeeTect Riot Face Shield (WRFS)



WeeTect riot face shield (WRFS) is custom made injection molding full face visor or polycarbonate sheet with outstanding impact resistance, fog resistance and abrasion resistance which applied to riot helmet. It is complaint with NIJ 0104.02(riot) and 0105.01(crash) which can support your riot helmet with face shield business very well.

WeeTect riot face shield (WRFS) offers superior performance to eye and face protection to law enforcement officers. Compared with the normal riot face shield sold elsewhere, WeeTect riot face shield (WRFS) achieves better results with impact resistant, anti-fog and abrasion resistant performance. Having a sustainable performance increases the longevity of the product and reduces significant product manufacturing costs, WeeTect riot face shield (WRFS) is popularly used in the law enforcement industry.

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Advantages:

- Complaint with NIJ 0104.02(riot) and 0105.01(crash)
- Custom made with NDA
- Anti fog anti scratch coated as an option
- More cost competitive
- Superior impact resistance
- Outstanding Optical Clarify

WeeTect Riot Face Shield (WRFS) Technical Data

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Item	Property	Test Method	U/M	Value
Optical	D iopter	ECE 22.05	D	<0.125
	Fog Free time	ECE 22.05	s	>22
	Fog Free time	ECE 22.05	s	no fogging
Mechanical	Hardness 1KG	N IJ 0104.02	H	1
	High velocity impact	N IJ 0104.02	ft/s	>300
	Cross-Cut tape test	N IJ 0104.02	NA	Pass
	Elongation, yield % 7	N IJ 0104.02	%	7
	Elongation, break ISO 527 % 110	N IJ 0104.02	%	110
	Tensile stress, yield	N IJ 0104.02	M pa	60
	Tensile modulus M Pa	N IJ 0104.02	M pa	2300
	Flexural strength, yield	N IJ 0104.02	M pa	100
	Flexural modulus ISO 178 M Pa 2500	N IJ 0104.02	M pa	2500
	Izod notched impact, 20 °C	N IJ 0104.02	K J/m ²	65
Physical	Gravity	N IJ 0104.02	g/cm ³	1.2
	Water absorption, 24 hours	N IJ 0104.02	%	0.15
Thermal	Mod shrinkage	N IJ 0104.02	%	0.5-0.7
	Thermal expansion	N IJ 0104.02	1/°C	7x10 ⁻⁵
	Vicat Softening Temp., Rate B /120 (base sheet)	N IJ 0104.02	°C	150
	HDT, 0.45 M Pa	N IJ 0104.02	°C	138