

PRODUCT DATASHEET

## **WeeTect Pilot Visor (WPV)**

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WeeTect pilot visor (WPV) is a military level helicopter helmet visor which also names fighter pilot mask. It has superior impact resistance, optical clarity, abrasion resistance, and fog resistance in extreme weather. The flame retardant property is an option. WeeTect is glad to develop and custom pilot visor for you.

WeeTect Pilot Visor (WPV) is an excellent candidate to offer a superior performance to helicopter helmet manufacturers or brands. The sustainable performance could prolong the longevity and reduce cost significantly.

WeeTect is glad to custom helicopter helmet visor for you.

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- WeeTect can customize any injection molding pilot visor size you required.

### Advantages:

- Flame retardant as an option
- Superior optical clarity (class 1) with lower distortion
- Superior impact resistant
- Outstanding fog resistant feature
- More abrasion resistant
- Much more cost competitive

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### WeeTect Pilot Visor (WPV) Technical Data

Item	Property	Test Method	U/M	Value
<b>Optical</b>	UV Resistant (380nm)	EN170	%	99.99%
	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	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 <sup>2</sup>	65
<b>Physical</b>	Gravity	ISO 1183	g/cm <sup>3</sup>	1.2
	Water absorption, 24 hours	ISO 62	%	0.15
<b>Thermal</b>	Mold shrinkage	ISO527	%	0.5-0.7
	Thermal expansion	ASTM D696	1/ °C	7x10 <sup>-5</sup>
	Vicat Softening Temp., Rate B / 120(base sheet)	ISO 306	°C	150
	HDT, 0.45 MPa	ISO 75/Be	°C	138