

мотосар

This MotoCAP safety rating applies to:

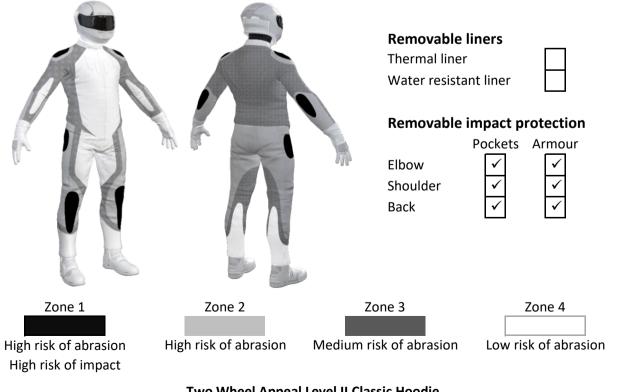
Brand	Two Wheel Appeal
Model	Level II Classic Hoodie
Туре	Jacket - Textile
Date purchased	1 June 2023
Sizes tested	XL and 2XL
Test garment gender	Male
Style	Streetwear
RRP	\$329.00

Test Results Summary	Rating	Score
MotoCAP Protection Rating	**	28.0
Abrasion	1/10	0.66
Burst	7/10	785
Impact	8/10	56.1
MotoCAP Breathability Rating	***	0.512
Moisture Vapour Resistance	-	26.9
Thermal Resistance	-	0.230
Water resistance	N/A	N/A

This garment is fitted with impact protectors for the elbows, shoulders and back. There are no vents to allow airflow movement through the garment.

Jacket and Pants - Crash Impact Risk Zones

This diagram is a pictorial representation of the crash impact risk Zones.

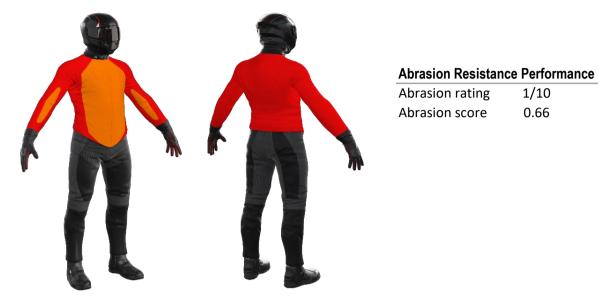


Two Wheel Appeal Level II Classic Hoodie Textile Jacket



Abrasion Resistance

The jacket was tested for abrasion resistance in accordance with MotoCAP test protocols. The diagram below is a visual indication of the likely abrasion performance of the materials in each zone calculated from the data in the table below. The colour coding is based on the worst performing material in each zone.



Determining Criteria	Area	Good	Acceptable	Marginal	Poor
High abrasion risk	Zone 1 & 2	> 5.6	3.0 - 5.6	1.3 - 2.9	< 1.3
Medium abrasion risk	Zone 3	> 2.5	1.8 - 2.5	0.8 - 1.7	< 0.8
Low abrasion risk	Zone 4	>1.5	1.0 - 1.5	0.4 - 0.9	< 0.4

Individual Abrasion Resistance Results: - The table below shows the test results for time to abrade through all layers of the materials. Calculated for each sample by Zone, type and area coverage of each material as a proportion of that Zone. Abrasion times are capped at a maximum of 10.00s.

Zone 1 & 2	Coverage (%)	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Average
Material A	100%	0.82	0.72	0.59	0.72	0.63	0.47	0.66 P
Zone 3	Coverage (%)	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Average
Material A	100%	0.82	0.72	0.59	0.72	0.63	0.47	0.66 P
Zone 4	Coverage (%)	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Average
Material A	100%	0.82	0.72	0.59	0.72	0.63	0.47	0.66 M

Details of materials used in jacket

Material A Stretch fabric shell, para-aramid fabric layer and mesh inner liner



Burst Strength

The jacket was tested for burst strength in accordance with MotoCAP test protocols. The diagram below illustrates the burst strength results in terms of the likely performance of the garment in an impact and is a pictorial representation of the data from the table below.



Burst Strength	n Performance
Burst rating	7/10
Burst score	785

Determining Criteria	Unit	Good	Acceptable	Marginal	Poor
Burst strength	(kPa)	> 1000	800 - 1000	500 - 799	< 500

Individual Burst Strength Results: - The table below shows the burst pressure in kilopascals (kPA) for each sample tested by Zone and the average result for each zone.

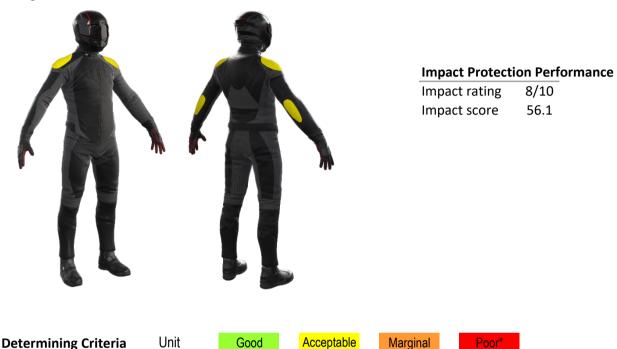
Burst pressure for each seam (kPA)

Area	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Average	
Zones 1 & 2	668	748	688	797	953	1088	824	Α
Zones 3 & 4	590	556	497	466	1178	484	629	Μ



Impact Protection

The jacket was tested for impact protection and coverage in accordance with MotoCAP test protocols. The diagram below is a visual indication of the likely performance of each impact protector calculated from the data in the table below. The colour coding is based on the worst performing score for average or maximum force for each impact zone. Areas shaded black are not considered for impact protection ratings.



* Poor may also indicate that no impact protector, or impact protector pocket is present in the garment

< 15

(kN)

Individual Impact Protector Results: - The table below shows the test results for each strike on each impact protector in kilonewtons (kN) and their area of coverage as a proportion (%) of the Zone. Individual strike results are capped at a maximum of 50kN.

15 - 24

25 - 30

> 30

Impact protector type	Elbow		Shoulder
Average force (kN)	10.5	G	16.0 A
Maximum force (kN)	15.8	A	17.8 A
Coverage of Zone 1 area	115%		110%
Coverage of Zone after displacement	80%		90%

Individual Impact Protector Results: - The table below shows the test results for each strike on individual impact protectors in kilonewtons (kN) and the position of the strike. Individual strike results are capped at a maximum of 50kN.

Force transfer for each impact strike (kN)

Impact protector type	Elbow			Shoulder		
Strike location	Centre	Mid	Edge	Centre	Mid	Edge
Impact Protector 1	8.6	9.8	15.8	14.7	15.5	16.4
Impact Protector 2	9.1	9.3	10.0	15.8	15.8	15.9
Impact Protector 3	9.0	11.8	11.4	16.4	15.7	17.8

Impact force



Breathability

The jacket was tested for breathability following the MotoCAP test protocols. The table below shows the moisture vapour resistance and the thermal resistance values obtained.

Without removable	With water-resistant liner			
Breathability rating	***	Brea	thability rating	N/A
Breathability score	0.512	Brea	thability score	N/A
Moisture Vapour Resi	stance - R _{et} (kPa.m²/W)	1	2	Average
Without removable line	rs	26.9	26.9	26.9
With water-resistant line	er	N/A	N/A	N/A
Thermal Resistance -	R _{ct} (K.m²/W)	1	2	Average
Without removable line	rs	0.233	0.227	0.230
With water-resistant line	er	N/A	N/A	N/A

Water spray and rain resistance

This jacket has not been advertised as water-resistant so has not been tested for water spray and rain resistance.

Assessment Details.

Brand	Two Wheel Appeal
Model	Level II Classic Hoodie
Туре	Jacket - Textile
Date purchased	1 June 2023
Tested by	AMCAF, Deakin University
Report approved by	MotoCAP Chief Scientist
Garment test reference	J23T26
Rating first published	July 2023
Rating updated	31 July 2023