

MOTOCAP

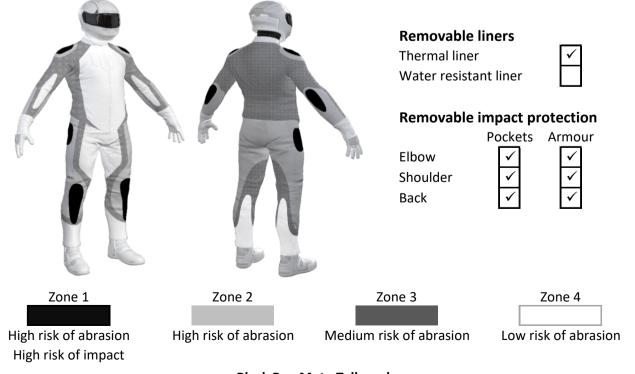
This MotoCAP safety rating applies to:					
Brand	Black Pup Moto				
Model	Tallarook				
Туре	Textile Jacket				
Date purchased	11 January 2024				
Sizes tested	M and XL				
Test garment gender	Male				
Style	Adventure				
RRP	\$450.00				
Test Results Summary	Rating	Score			
MotoCAP Protection Ratio	ng ★★★★	56.9			
Abrasion	6/10	4.37			

Motochi i fotection rating		50.5
Abrasion	6/10	4.37
Burst	10/10	1176
Impact	10/10	77.6
MotoCAP Breathability Rating	+	0.041
Moisture Vapour Resistance	-	480.8
Thermal Resistance	-	0.328
Water resistance	1/10	50.8

This garment is fitted with impact protectors for the elbows, shoulders and back. There are zipped vents in the upper arms and sides of back to allow controlled airflow movement through the garment. The breathability rating is based on tests of the garment's materials when all vents are closed. The breathability of this product may be better when the vents can be opened. Breathability was measured without the removable thermal liner installed.

Jacket and Pants - Crash Impact Risk Zones

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



Black Pup Moto Tallarook 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.



Abrasion Resistance Performance

Abrasion rating	6/10
Abrasion score	4.37

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.

Abrasion time for each test (seconds)								
Zone 1 & 2	Coverage (%)	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Average
Material A	100%	8.17	6.76	7.02	5.96	4.46	7.72	6.68 G
Zone 3	Coverage (%)	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Average
Material B	100%	0.91	0.67	1.08	1.05	0.75	0.93	0.90 M
Zone 4	Coverage (%)	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Average
Material B	100%	0.91	0.67	1.08	1.05	0.75	0.93	0.90 M

Details of materials used in jacket

Material A	Leather shell, water-resistant layer and mesh inner liner
Material B	Fabric shell, water-resistant 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 Performance						
Burst rating	10/10					
Burst score	1176					

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.

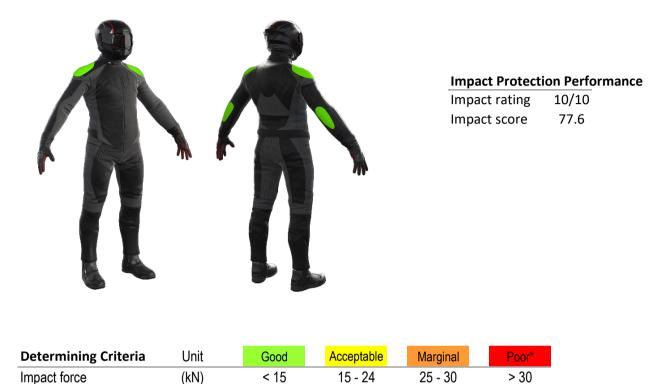
Burst pressure for each seam (kPA)

Area	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Average	
Zones 1 & 2	1526	1143	1301	1152	1283	756	1193	G
Zones 3 & 4	1519	465	1609	489	1081	1468	1105	G



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

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.

Impact protector type	Elbow		Shoulder
Average force (kN)	6.4	G	7.0 G
Maximum force (kN)	7.9	G	9.1 G
Coverage of Zone 1 area	120%		110%
Coverage of Zone after displacement	90%		100%

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	5.0	6.1	7.2	5.2	6.0	8.0
Impact Protector 2	5.1	5.8	7.1	6.0	6.5	8.3
Impact Protector 3	6.7	6.5	7.9	6.2	7.9	9.1



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 l	iners	With water-resistant liner			
Breathability rating	7	Breat	thability rating	N/A	
Breathability score	0.041	Breathability score N			
Moisture Vapour Resis	stance - R _{et} (kPa.m ² /W)	1	2	Average	
Without removable liner	S	538.6	423.0	480.8	
With water-resistant line	r	N/A	N/A	N/A	
Thermal Resistance - I	R _{ct} (K.m²/W)	1	2	Average	
Without removable liner	S	0.336	0.319	0.328	
With water-resistant line	r	N/A	N/A	N/A	

Water spray and rain resistance

This jacket is advertised as water-resistant, and so has been tested for water spray and rain resistance according to the MotoCAP test protocols. The table below shows the water absorbed (ml) and the wetting proportion (%) of the garment and undergarments due to water absorption.

	Water absorbed by garment		Water absorbed by underwear	
	Volume (ml)	Percentage (%)	Volume (ml)	Percentage (%)
Jacket 1	871	42%	157	58%
Jacket 2	766	35%	116	43%
Average	818	39%	136	51%

Location of wetting

There was major wetting to the cotton underwear present at the sleeves and tummy of both jackets and at the neck of one without liner. When the liner was added, wetting at the sleeve and tummy became minor and no wetting visible at the neck.

Assessment Details.	
Brand	Black Pup Moto
Model	Tallarook
Туре	Textile Jacket
Date purchased	11 January 2024
Tested by	AMCAF, Deakin University
Report approved by	MotoCAP Chief Scientist
Garment test reference	J24T16
Rating first published	March 2024
Rating updated	25 March 2024