

MOTOCAP

Model	Idle		
Туре	Jacke	et - Textile	
Date purchased	1 Jun	ne 2023	
Sizes tested	56 ar	nd 58	
Test garment gender	Male	2	
Style	All Pu	urpose	
RRP	\$249	.00	
Test Results Summary		Rating	Score
Test Results Summary MotoCAP Protection Rat	ing	Rating ★	Score 23.2
	ing		
MotoCAP Protection Rat	ing	*	23.2
MotoCAP Protection Rat Abrasion	ing	★ 1/10	<b>23.2</b> 0.59
MotoCAP Protection Rat Abrasion Burst		★ 1/10 9/10	<b>23.2</b> 0.59 949
MotoCAP Protection Rat Abrasion Burst Impact	Rating	★ 1/10 9/10 5/10	<b>23.2</b> 0.59 949 35.9

This MotoCAP safety rating applies to:

Brand

Shark Leathers

1/10

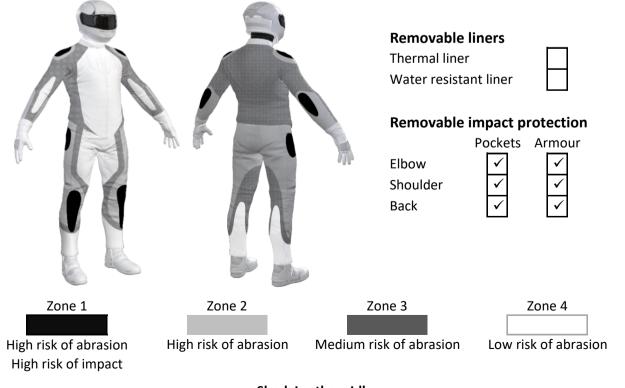
53.9

This garment is fitted with impact protectors for the elbows, shoulders and back. There are zipped vents in the arm 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.

Water resistance

## Jacket and Pants - Crash Impact Risk Zones

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





## **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 rating	1/10
Abrasion score	0.59

<b>Determining Criteria</b>	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%	0.66	0.62	0.47	0.66	0.64	0.48	0.59
Zone 3	Coverage (%)	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Average
Material A	100%	0.66	0.62	0.47	0.66	0.64	0.48	0.59
Zone 4	Coverage (%)	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Average
Material A	100%	0.66	0.62	0.47	0.66	0.64	0.48	0.59

### Details of materials used in jacket

Material A Woven fabric shell with 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 PerformanceBurst rating9/10Burst score949

<b>Determining Criteria</b>	Unit	Good	<b>Acceptable</b>	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.

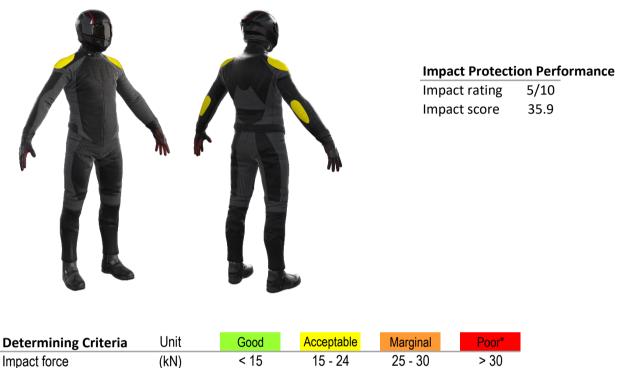
# Burst pressure for each seam (kPA)

Area	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Average	
Zones 1 & 2	937	826	942	994	1325	815	973	Α
Zones 3 & 4	884	810	706	752	1093	862	851	Α



## **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)	17.3	A	18.6	Α
Maximum force (kN)	21.3	A	21.9	Α
Coverage of Zone 1 area	95%		95%	
Coverage of Zone after displacement	50%		85%	

**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	15.1	18.0	19.1	16.3	19.8	16.0
Impact Protector 2	16.1	15.5	16.7	17.0	18.6	21.9
Impact Protector 3	16.8	17.6	21.3	17.3	19.1	21.8



## **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 I	With	n water-resista	ant liner	
Breathability rating	*	Brea	thability rating	N/A
Breathability score	0.067	Brea	thability score	N/A
Moisture Vapour Resis	stance - R <sub>et</sub> (kPa.m²/W)	1	2	Average
Without removable liner	S	349.7	385.7	367.7
With water-resistant line	er	N/A	N/A	N/A
Thermal Resistance -	R <sub>ct</sub> (K.m²/W)	1	2	Average
Without removable liner	S	0.408	0.412	0.410
With water-resistant line	Pr	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 absorbe	ed by garment	Water absorbed by underwear		
	Volume (ml)	Percentage (%)	Volume (ml)	Percentage (%)	
Jacket 1	719	55%	165	56%	
Jacket 2	965	74%	151	51%	
Average	842	65%	158	54%	

## Location of wetting

There was minor wetting to the cotton underwear present at the cuffs of the sleeves, and major wetting on the chest for both jackets tested.

Assessment Details.	
Brand	Shark Leathers
Model	Idle
Туре	Jacket - Textile
Date purchased	1 June 2023
Tested by	AMCAF, Deakin University
Report approved by	MotoCAP Chief Scientist
Garment test reference	J23T35
Rating first published	September 2023
Rating updated	4 September 2023