



This MotoCAP safety rating applies to:

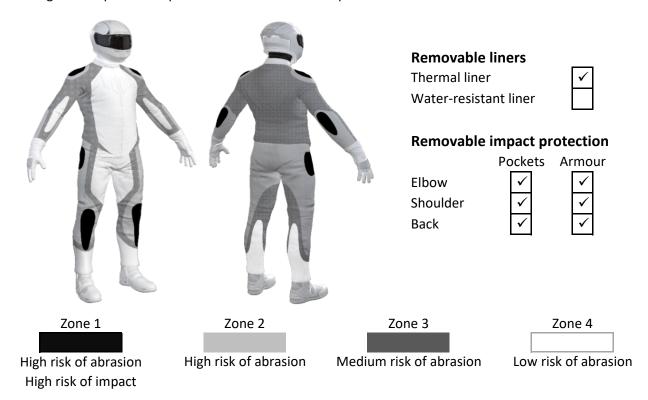
Brand Shark Leathers Model Urban Classic (Black) Jacket - Leather Type Date purchased 1 June 2023 Sizes tested XL and 2XL Male Test garment gender Style All Purpose RRP \$399.00

Test Results Summary	Rating	Score
MotoCAP Protection Rating	***	49.9
Abrasion	6/10	4.62
Burst	10/10	1610
Impact	5/10	35.7
MotoCAP Breathability Rating	**	0.328
Moisture Vapour Resistance	-	45.6
Thermal Resistance	-	0.249
Water resistance	N/A	N/A

This garment is fitted with impact protectors for the elbows, shoulders and back. There are zipped vents in the chest, arms and 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. The brown Urban Classic jacket performed differently in testing and is reported in a seperate report.

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 Resistance Performance

Abrasion rating	6/10
Abrasion score	4.62

Determining Criteria	Area	Good	Acceptable	Marginal	Poor
High abrasion risk	Zones 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)

Coverage (%)	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Average	
100%	5.30	4.98	5.55	5.77	3.00	3.13	4.62	Α
Coverage (%)	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Average	
100%	5.30	4.98	5.55	5.77	3.00	3.13	4.62	G
Coverage (%)	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Average	
100%	5.30	4.98	5.55	5.77	3.00	3.13	4.62	G
	100% Coverage (%) 100% Coverage (%)	100% 5.30 Coverage (%) Sample 1 100% 5.30 Coverage (%) Sample 1	100% 5.30 4.98 Coverage (%) Sample 1 Sample 2 100% 5.30 4.98 Coverage (%) Sample 1 Sample 2	100% 5.30 4.98 5.55 Coverage (%) Sample 1 Sample 2 Sample 3 100% 5.30 4.98 5.55 Coverage (%) Sample 1 Sample 2 Sample 3	100% 5.30 4.98 5.55 5.77 Coverage (%) Sample 1 Sample 2 Sample 3 Sample 4 100% 5.30 4.98 5.55 5.77 Coverage (%) Sample 1 Sample 2 Sample 3 Sample 4	100% 5.30 4.98 5.55 5.77 3.00 Coverage (%) Sample 1 Sample 2 Sample 3 Sample 4 Sample 5 100% 5.30 4.98 5.55 5.77 3.00 Coverage (%) Sample 1 Sample 2 Sample 3 Sample 4 Sample 5	100% 5.30 4.98 5.55 5.77 3.00 3.13 Coverage (%) Sample 1 Sample 2 Sample 3 Sample 4 Sample 5 Sample 6 100% 5.30 4.98 5.55 5.77 3.00 3.13 Coverage (%) Sample 1 Sample 2 Sample 3 Sample 4 Sample 5 Sample 6	100% 5.30 4.98 5.55 5.77 3.00 3.13 4.62 Coverage (%) Sample 1 Sample 2 Sample 3 Sample 4 Sample 5 Sample 6 Average 100% 5.30 4.98 5.55 5.77 3.00 3.13 4.62 Coverage (%) Sample 1 Sample 2 Sample 3 Sample 4 Sample 5 Sample 6 Average

Details of materials used in jacket

Material A Leather patch over leather 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 I	Performance
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Burst rating	10/10
Burst score	1610

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	1997	1017	1871	2015	1009	1800	1618 G
Zones 3 & 4	1552	2000	1290	1683	1723	1227	1579 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.



Impact Protection Performance Impact rating 5/10 Impact score 35.7

Determining Criteria	Unit	Good	Acceptable	Marginal	Poor*
Impact force	(kN)	< 15	15 - 24	25 - 30	> 30

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

Impact Protector Results: - The table below shows the average and maximum force transmitted through each impact protector type in kilonewtons (kN) and their area of coverage as a proportion (%) of the Zone.

Impact protector type	Elbow		Shoulder
Average force (kN)	19.9	A	20.0 A
Maximum force (kN)	24.7	A	26.0 M
Coverage of Zone 1 area	95%		95%
Coverage of Zone after displacement	90%		95%

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	17.2	18.4	21.4	17.3	17.6	19.3
Impact Protector 2	18.4	18.8	21.6	19.0	19.9	19.4
Impact Protector 3	19.3	19.7	24.7	17.5	23.7	26.0



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 li	With water-resistant liner			
Breathability rating	**	Brea	thability rating	N/A
Breathability score	0.328	Breat	thability score	N/A
Moisture Vapour Resis	tance - R _{et} (kPa.m²/W)	1	2	Average
Without removable liners	3	46.9	44.4	45.6
With water-resistant line	r	N/A	N/A	N/A
Thermal Resistance - F	R _{ct} (K.m²/W)	1	2	Average
Without removable liners	3	0.263	0.236	0.249
With water-resistant line	r	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 Shark Leathers

Model Urban Classic (Black)

Type Jacket - Leather

Date purchased 1 June 2023

Tested by AMCAF, Deakin University Report approved by MotoCAP Chief Scientist

Garment test reference J23L19

Rating first published September 2023 Rating updated 15 September 2023