



This MotoCAP safety rating applies to:

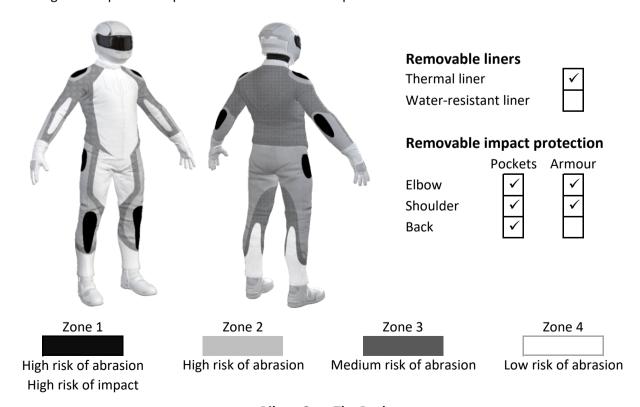
Brand Bikers Gear Model The Rocker Type Jacket - Leather Date purchased 1 June 2023 Sizes tested XL and 2XL Test garment gender Male Style All Purpose RRP \$299.00

Test Results Summary	Rating	Score
MotoCAP Protection Rating	***	55.6
Abrasion	8/10	5.74
Burst	10/10	1456
Impact	6/10	41.3
MotoCAP Breathability Rating	*	0.250
Moisture Vapour Resistance	-	59.3
Thermal Resistance	-	0.248
Water resistance	N/A	N/A

This garment is fitted with impact protectors for the elbows and shoulders. A pocket is provided for an aftermarket back protector. Replacing the shoulder armour with higher performing impact protectors would improve the protection levels of this garment. There are zipped vents in the chest 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.





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	8/10
Abrasion score	5.74

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)

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Zones 1 & 2	Coverage (%)	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Average	
Material A	50%	7.52	5.02	10.33	9.85			8.18	G
Material B	50%	5.90	4.83	4.34	4.34	4.26	4.49	4.69	Α
Zone 3	Coverage (%)	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Average	
Material B	100%	5.90	4.83	4.34	4.34	4.26	4.49	4.69	G
Zone 4	Coverage (%)	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Average	
Material B	100%	5.90	4.83	4.34	4.34	4.26	4.49	4.69	G

Details of materials used in jacket

Material A	Leather shell, foam layer and mesh inner liner
Material B	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 Performance					
Burst rating	10/10				
Burst score	1456				

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	1390	1103	1486	1551	1822	1713	1511	G
Zones 3 & 4	1397	1564	965	1392	1386	712	1236	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	6/10
Impact score	41.3

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)	21.0	A	22.5 A
Maximum force (kN)	23.6	A	26.5 M
Coverage of Zone 1 area	120%		105%
Coverage of Zone after displacement	100%		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	18.9	20.8	22.6	20.9	21.9	22.9
Impact Protector 2	19.4	20.4	22.1	21.0	22.2	23.7
Impact Protector 3	20.4	21.4	23.6	21.9	21.9	26.5



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 liners		With water-resistant liner		
Breathability rating Breathability score 0.250		Breathability rating Breathability score		
				stance - R _{et} (kPa.m²/W)
S	60.2	58.4	59.3	
r	N/A	N/A	N/A	
R _{ct} (K.m²/W)	1	2	Average	
S	0.240	0.255	0.248	
r	N/A	N/A	N/A	
	*	★ Brea 0.250 Brea stance - Ret (kPa.m²/W) 1 s 60.2 N/A N/A Rct (K.m²/W) 1 s 0.240	★ Breathability rating Breathability score 0.250 Breathability score stance - Ret (kPa.m²/W) 1 2 s 60.2 58.4 N/A N/A N/A Rct (K.m²/W) 1 2 s 0.240 0.255	

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 Bikers Gear
Model The Rocker
Type Jacket - Leather
Date purchased 1 June 2023

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

Garment test reference J23L14
Rating first published July 2023
Rating updated 28 July 2023