



This MotoCAP safety rating applies to:

Brand Rjays Model Covert

Type Jacket - Textile
Date purchased 4 December 2020

Sizes tested XL and 2XL Test garment gender Male

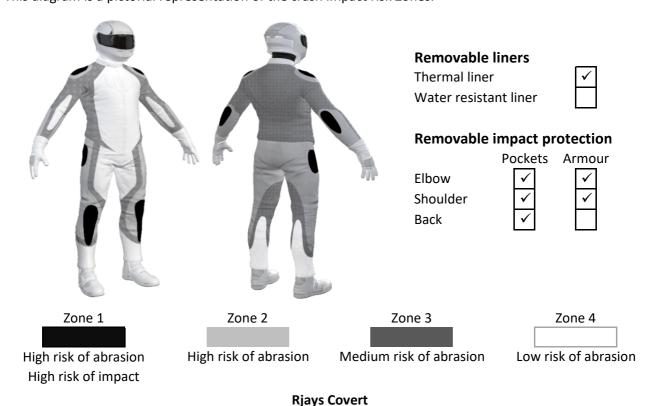
Style Streetwear RRP \$349.95

Test Results Summary	Rating	Score
MotoCAP Protection Rating	*	22.7
Abrasion	1/10	0.64
Burst	10/10	1088
Impact	4/10	28.7
MotoCAP Breathability Rating	*	0.287
Moisture Vapour Resistance	-	77.4
Thermal Resistance	-	0.370
Water resistance	2/10	20.8

This garment is fitted with impact protectors for the elbows and shoulders. A pocket is provided for an aftermarket back protector. Replacing the elbow and shoulder armour with higher performing impact protectors would improve the protection levels of this garment. There are no vents to allow airflow movement through the garment. 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	1/10
Abrasion score	0.64

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)

,	101 04011 1001 (001	,							
Zone 1 & 2	Coverage (%)	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Average	
Material A	80%	1.48	1.46	1.22	1.40	0.89	1.42	1.31	M
Material B	20%	0.39	0.41	0.40	0.38	0.36	0.42	0.40	Р
Zone 3	Coverage (%)	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Average	
Material B	100%	0.39	0.41	0.40	0.38	0.36	0.42	0.40	Р
Zone 4	Coverage (%)	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Average	
Material B	100%	0.39	0.41	0.40	0.38	0.36	0.42	0.40	M

Details of materials used in jacket

Material A	Woven fabric shell, woven fabric layer, water resistant layer and mesh inner liner
Material B	Woven 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	1088

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	1404	1404	820	998	755	1130.5	1085	G
Zones 3 & 4	1234	817	1076	841	1355	1278.9	1100	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 maximium force for each impact zone. Areas shaded black are not considered for impact protection ratings.



Impact Protection Performance
Impact rating 4/10
Impact score 28.7

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

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)	23.7	A	24.6 A
Maximum force (kN)	27.0	M	28.8 M
Coverage of Zone 1 area	95%	<u></u>	110%
Coverage of Zone after displacement	60%		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	ow Shoulder				
Strike location	Centre	Mid	Edge	Centre	Mid	Edge
Impact Protector 1	23.3	22.3	24.6	23.6	26.0	25.9
Impact Protector 2	21.7	23.0	26.8	21.0	25.0	26.3
Impact Protector 3	22.2	22.7	27.0	21.7	23.4	28.8



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 li	ners	With water-resistant liner			
Breathability rating	*	Breat	thability rating	N/A	
Breathability score	0.287	Breat	thability score	N/A	
Moisture Vapour Resis	tance - R _{et} (kPa.m²/W)	1	2	Average	
Without removable liners	3	77.7	77.0	77.4	
With water-resistant liner	-	N/A	N/A	N/A	
Thermal Resistance - R	R _{ct} (K.m²/W)	1	2	Average	
Without removable liners	3	0.354	0.386	0.370	
With water-resistant lines		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	1082	81%	73	26%
Jacket 2	et 2 802	60%	43	15%
Average	942	70%	58	21%

Location of wetting

There was major wetting to the cotton underwear present at the neck and chest for both jackets tested.

Assessment Details	.
Brand	Rjays
Model	Covert
Type	Jacket - Textile
Date purchased	XL and 2XL
Tested by	AMCAF, Deakin University
Garment test reference	J20T07
Rating first published	March 2021
Rating updated	4 March 2021