

MOTOCAP

This MotoCAP safety	rating applies to	0:
Brand	Rjays	
Model	Pace	
Туре	Jacket - Textile	
Date purchased	19 August 2023	
Sizes tested	L and XL	
Test garment gender	Male	
Style	All Purpose	
RRP	\$279.95	
Test Results Summary	Rating	Score
MotoCAP Protection Rati	na 🕹 🕁	35.3

MotoCAP Protection Rating	**	35.3
Abrasion	1/10	0.52
Burst	10/10	1072
Impact	9/10	73.2
MotoCAP Breathability Rating	+	0.041
Moisture Vapour Resistance	-	412.8
Thermal Resistance	-	0.282
Water resistance	1/10	32.3

This garment is fitted with impact protectors for the elbows and shoulders. A pocket is provided for an aftermarket back protector. There are zipped vents in the chest 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. This garment has a removable water-resistant liner. The breathability rating above was achieved with the waterresistant liner removed. When tested with the water-resistant liner installed, the breathability rating reduced but remained at half a star.

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 Resistar	nce Performance
Abrasion rating	1/10

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Abrasion sc	ore	0.52

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%	0.56	0.56	0.44	0.44	0.48	0.63	0.52 P
Zone 3	Coverage (%)	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Average
Material A	100%	0.56	0.56	0.44	0.44	0.48	0.63	0.52 P
Zone 4	Coverage (%)	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Average
Material A	100%	0.56	0.56	0.44	0.44	0.48	0.63	0.52 M

Details of materials used in jacket

Material A Woven fabric shell with laminated 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.



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	1300	1082	823	1008	913	1439	1094	G
Zones 3 & 4	935	655	1104	1001	1154	1056	984	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)	6.6	G	5.6 G
Maximum force (kN)	11.9	G	8.5 G
Coverage of Zone 1 area	120%		110%
Coverage of Zone after displacement	80%		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	4.1	5.3	11.9	4.7	5.2	8.5
Impact Protector 2	4.0	5.3	9.3	4.6	5.1	6.7
Impact Protector 3	3.9	5.8	9.6	4.2	4.3	7.3



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	With	int liner		
Breathability rating	1	Breat	hability rating	7
Breathability score	0.041	Breat	0.066	
Moisture Vapour Resis	stance - R _{et} (kPa.m²/W)	1	2	Average
Without removable liner	S	403.0	422.6	412.8
With water-resistant line	r	318.9	388.3	353.6
Thermal Resistance - F	R _{ct} (K.m²/W)	1	2	Average
Without removable liner	S	0.292	0.273	0.282
With water-resistant line	r	0.387	0.395	0.391

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	193	14%	43	15%	
Jacket 2	183	14%	135	49%	
Average	188	14%	89	32%	

Location of wetting

Visible wetting to the cotton underwear was present over the chest and neck in two of the jackets tested, one also included the cuffs. The third jacket tested had no evidence of wetting.

Assessment Details.	
Brand	Rjays
Model	Pace
Туре	Jacket - Textile
Date purchased	19 August 2023
Tested by	AMCAF, Deakin University
Report approved by	MotoCAP Chief Scientist
Garment test reference	J24T07
Rating first published	January 2024
Rating updated	29 January 2024