



This MotoCAP safety rating applies to:

Brand DriRider Model RX4

Type Textile Jacket
Date purchased 20 January 2024

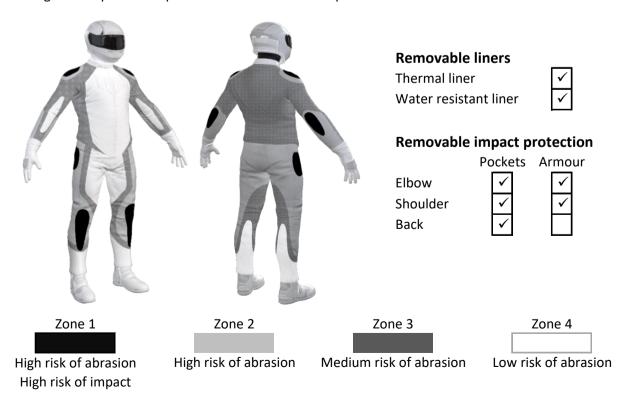
Sizes tested L and XL
Test garment gender Male
Style Adventure
RRP \$449.95

Test Results Summary	Rating	Score
MotoCAP Protection Rating	*	23.9
Abrasion	1/10	0.86
Burst	10/10	1209
Impact	4/10	25.0
MotoCAP Breathability Rating	**	0.298
Moisture Vapour Resistance	-	48.1
Thermal Resistance	-	0.239
Water resistance	1/10	61.0

This garment has removable sleeves. All test results in this report are for the garment with its sleeves installed. 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. Mesh panels are located in the arms, chest and back to allow airflow movement through the garment. This garment has a removable water-resistant liner. The breathability rating above was achieved with the thermal and water-resistant liners removed. When tested with the water-resistant liner installed, the breathability rating reduced to 1 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 Resistance Performance

Abrasion rating	1/10
Abrasion score	0.86

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	65%	10.00	10.00	10.00	10.00	10.00	10.00	10.00	G
Material B	35%	0.52	0.50	0.45	0.94	0.76	0.43	0.60	Р
Zone 3	Coverage (%)	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Average	
Material B	50%	0.52	0.50	0.45	0.94	0.76	0.43	0.60	Р
Material C	50%	0.35	0.21	0.32	0.39	0.33	0.24	0.31	Р
Zone 4	Coverage (%)	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Average	
Material B	60%	0.52	0.50	0.45	0.94	0.76	0.43	0.60	М
Material C	40%	0.35	0.21	0.32	0.39	0.33	0.24	0.31	Р

Details of materials used in jacket

Material A	Woven fabric shell over foam layer with mesh inner liner
Material B	Woven fabric shell with mesh inner liner
Material C	Mesh 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 Strengtl	h Performance
Rurst rating	10/10

Durstrating	10/10
Burst score	1209

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	1401	1208	1507	1225	1182	1083	1267	3
Zones 3 & 4	664	1150	996	979	1021	1040	975 A	4



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	4/10
Impact score	25.0

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)	26.4	M	26.1 M
Maximum force (kN)	33.0	Р	31.3 P
Coverage of Zone 1 area	95%		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	21.7	28.4	27.3	15.7	25.3	29.5
Impact Protector 2	18.0	24.9	28.8	18.7	25.5	31.3
Impact Protector 3	26.1	29.3	33.0	28.2	31.3	29.9



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	n water-resist	ant liner
Breathability rating	**	Brea	thability rating	*
Breathability score	0.298	Brea	thability score	0.167
Moisture Vapour Resi	stance - R _{et} (kPa.m²/W)	1	2	Average
Without removable lines	°S	47.2	49.1	48.1
With water-resistant line	er	111.6	126.6	119.1
Thermal Resistance -	R _{ct} (K.m²/W)	1	2	Average
Without removable lines	°S	0.244	0.235	0.239
With water-resistant line	er	0.344	0.318	0.331

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 absorb	Water absorbed by garment		Water absorbed by underwear		
	Volume (ml)	Percentage (%)	Volume (ml)	Percentage (%)		
Jacket 1	625	28%	183	67%		
Jacket 2	600	27%	154	55%		
Average	612	27%	169	61%		

Location of wetting

There was major wetting to the cotton underwear present at the cuffs of the sleeves and neck for both jackets. There was also major wetting to the cotton underwear present on the chest of one jacket tested and there was minor wetting on the chest for the second jacket tested.

Brand	DriRider
Model	RX4
Туре	Textile Jacket
Date purchased	20 January 2024
Tested by	AMCAF, Deakin University
Report approved by	MotoCAP Chief Scientist
Garment test reference	J24T17
Rating first published	April 2024
Rating updated	18 October 2024