



This MotoCAP safety rating applies to:

Brand DriRider

Model Compass 3

Type Jacket - Textile

Date purchased 8 February 2021

Sizes tested L and 2XL

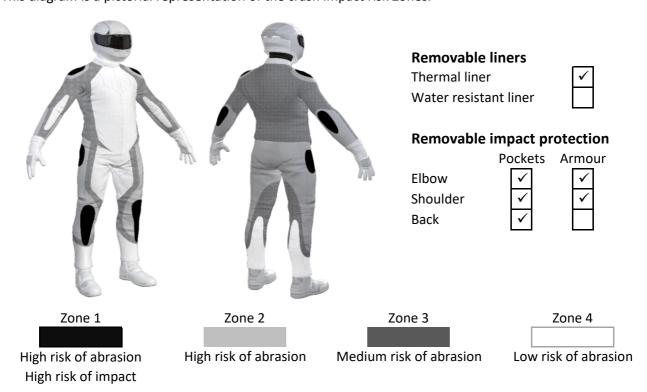
Test garment gender Male
Style All Purpose
RRP \$219.95

Test Results Summary	Rating	Score
MotoCAP Protection Rating	*	25.8
Abrasion	1/10	0.53
Burst	10/10	1634
Impact	3/10	22.6
MotoCAP Breathability Rating	+	0.095
Moisture Vapour Resistance	-	187.8
Thermal Resistance	-	0.298
Water resistance	1/10	70.8

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	0.53

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)

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Zone 1 & 2	Coverage (%)	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Average
Material A	100%	0.52	0.56	0.68	0.44	0.48	0.52	0.53
Zone 3	Coverage (%)	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Average L
Material A	100%	0.52	0.56	0.68	0.44	0.48	0.52	0.53
Zone 4	Coverage (%)	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Average
Material A	100%	0.52	0.56	0.68	0.44	0.48	0.52	0.53

Details of materials used in jacket

Material A 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	1634

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	1878	1967	1544	1811	1976	1292	1745	G
Zones 3 & 4	1196	1375	1346	1237	978	1025	1193	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 3/10
Impact score 22.6

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)	26.3	M	26.3 M
Maximum force (kN)	31.5	Р	30.9 P
Coverage of Zone 1 area	90%		90%
Coverage of Zone after displacement	80%		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			Shoulder		
Strike location	Centre	Mid	Edge	Centre	Mid	Edge
Impact Protector 1	23.4	27.2	27.6	25.3	26.6	27.8
Impact Protector 2	23.2	24.6	31.5	24.0	25.2	29.5
Impact Protector 3	24.0	25.3	30.1	24.0	23.5	30.9



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 li	With water-resistant liner				
Breathability rating	Breat	N/A			
Breathability score	0.095	Breathability score			
Moisture Vapour Resis	tance - R _{et} (kPa.m²/W)	1	2	Average	
Without removable liners		191.3	184.2	187.8	
With water-resistant liner		N/A	N/A	N/A	
Thermal Resistance - R	ct (K.m²/W)	1	2	Average	
Without removable liners		0.300	0.296	0.298	
With water-resistant liner		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 absorbe	ed by garment	Water absorbed by underwear		
	Volume (ml)	Percentage (%)	Volume (ml)	Percentage (%)	
Jacket 1	903	59%	186	67%	
Jacket 2	728	48%	216	74%	
Average	815	53%	201	71%	

Location of wetting

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

Assessment Details.	
Brand	DriRider
Model	Compass 3
Туре	Jacket - Textile
Date purchased	8 February 2021
Tested by	AMCAF, Deakin University
Garment test reference	J20T11
Rating first published	April 2021
Rating updated	19 April 2021
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