


**This MotoCAP safety rating applies to:**

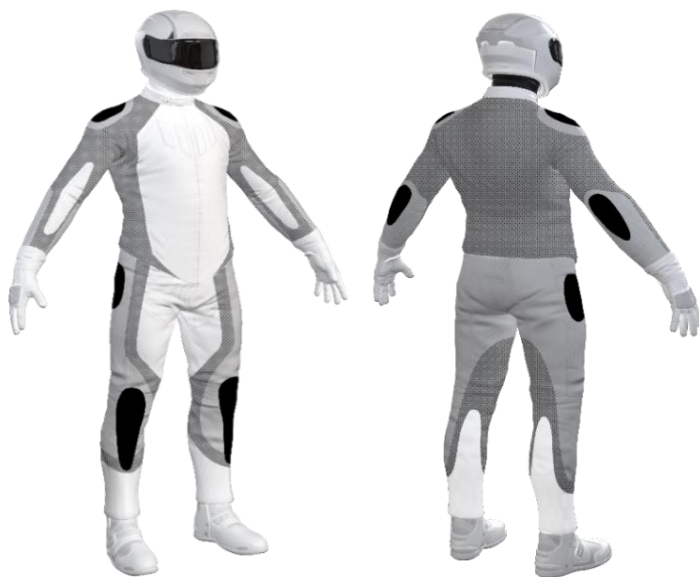
Brand	Dririder
Model	Motion
Type	Jacket - Textile
Date purchased	12 September 2022
Sizes tested	L and XL
Test garment gender	Male
Style	All Purpose
RRP	\$399.95


Test Results Summary	Rating	Score
MotoCAP Protection Rating	↘	5.3
Abrasion	1/10	0.35
Burst	3/10	357
Impact	1/10	0.0
MotoCAP Breathability Rating	↘	0.117
Moisture Vapour Resistance	-	148.9
Thermal Resistance	-	0.292
Water resistance	4/10	12.6


This garment is fitted with impact protectors for the elbows. There are no pockets provided at the shoulders for fitting aftermarket impact. The hard plastic panels fixed in the shoulders of the garment would provide negligible impact protection. Replacing the elbow 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.



**Zone 1**  
  
 High risk of abrasion  
 High risk of impact

**Zone 2**  
  
 High risk of abrasion

**Zone 3**  
  
 Medium risk of abrasion

**Zone 4**  
  
 Low risk of abrasion

**Removable liners**

Thermal liner	<input checked="" type="checkbox"/>
Water resistant liner	<input type="checkbox"/>

**Removable impact protection**

	Pockets	Armour
Elbow	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Shoulder	<input type="checkbox"/>	<input type="checkbox"/>
Back	<input checked="" type="checkbox"/>	<input type="checkbox"/>

## 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	0.35

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	Coverage (%)	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Average		
Zone 1 & 2	Material A	40%	2.16	1.44	2.44	1.15	1.21	1.95	1.72	M
	Material B	60%	0.68	0.87	0.66	0.75	0.61	0.68	0.71	P
Zone 3	Material B	100%	0.68	0.87	0.66	0.75	0.61	0.68	0.71	P
Zone 4	Material B	100%	0.68	0.87	0.66	0.75	0.61	0.68	0.71	M

### Details of materials used in jacket

Material A	Knitted fabric shell, foam layer, water-resistant layer and mesh inner liner
Material B	Knitted 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	3/10
Burst score	357

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	454	326	641	280	299	309	385	P
Zones 3 & 4	235	252	254	220	264	241	245	P

## 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	1/10
Impact score	0.0

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)	24.4	A		P
Maximum force (kN)	32.6	P		P
Coverage of Zone 1 area	80%		0%	
Coverage of Zone after displacement	50%		0%	

**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		
	Centre	Mid	Edge	Centre	Mid	Edge
Impact Protector 1	19.6	24.8	25.2			
Impact Protector 2	21.6	26.0	25.7			
Impact Protector 3	23.4	32.6	20.9			

## 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 water-resistant liner	
Breathability rating	✱	Breathability rating	N/A
Breathability score	0.117	Breathability score	N/A

Moisture Vapour Resistance - $R_{et}$ (kPa.m <sup>2</sup> /W)	1	2	Average
Without removable liners	145.1	152.8	148.9
With water-resistant liner	N/A	N/A	N/A
Thermal Resistance - $R_{ct}$ (K.m <sup>2</sup> /W)	1	2	Average
Without removable liners	0.290	0.293	0.292
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 absorbed by garment		Water absorbed by underwear	
	Volume (ml)	Percentage (%)	Volume (ml)	Percentage (%)
Jacket 1	1196	96%	53	18%
Jacket 2	1131	89%	42	15%
<b>Average</b>	1096	88%	36	13%

## Location of wetting

There was minor wetting to the cotton underwear present at the cuffs of the sleeves and major at the neck for one jacket and minor wetting to the cotton underwear present at the cuffs of the sleeves, neck and chest of the other jacket tested.

### Assessment Details.

Brand	Dririder
Model	Motion
Type	Jacket - Textile
Date purchased	12 September 2022
Tested by	AMCAF, Deakin University
Report approved by	MotoCAP Chief Scientist
Garment test reference	J21T11
Rating first published	October 2022
Rating updated	31 October 2022