



### This MotoCAP safety rating applies to:

Brand Rjays Model Tour

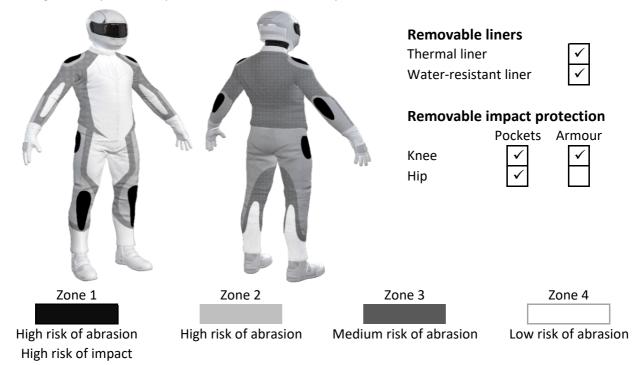
Type Pants - Textile
Date purchased 15 June 2022
Sizes tested XL and 2XL
Test garment gender Male
Style Tourer
RRP \$329.95

Test Results Summary	Rating	Score
MotoCAP Protection Rating	*	16.6
Abrasion	1/10	0.60
Burst	10/10	1365
Impact	1/10	0.0
MotoCAP Breathability Rating	**	0.313
Moisture Vapour Resistance	-	63.3
Thermal Resistance	-	0.331
Water resistance	1/10	47.8

This garment is fitted with impact protectors for the knees. Pockets are provided at the hips for fitting aftermarket impact protectors. Replacing the knee armour with higher performing impact protectors and adding hip impact protectors would improve the protection levels of this garment. There are zipped vents in the legs 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 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**

These pants were 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 0.60

<b>Determining Criteria</b>	Area	Good	Acceptable	Marginal	Poor
High abrasion risk	Zones 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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Zones 1 & 2	Coverage (%)	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Average	
Material A	100%	0.57	0.54	0.52	0.91	0.48	0.53	0.59	Р
Zone 3	Coverage (%)	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	L Average	
Material A	100%	0.57	0.54	0.52	0.91	0.48	0.53	0.59	Р
Zone 4	Coverage (%)	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	L Average	
Material A	70%	0.57	0.54	0.52	0.91	0.48	0.53	0.59	М
Material B	30%	1.40	0.45	0.64	0.56	0.46	0.63	0.69	M

# Details of materials used in jacket

Material A	Woven fabric shell with mesh inner liner
Material B	Stretch woven fabric shell with mesh inner liner



## **Burst Strength**

These pants were 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	1365

<b>Determining Criteria</b>	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	1681	1933	1501	1198	1015	1607	1489	G
Zones 3 & 4	1452	789	449	1047	809	662	868	Α



#### **Impact Protection**

These pants were 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

<b>Determining Criteria</b>	Unit	Good	Acceptable	Marginal	Poor*
Impact force	(kN)	< 15	15 - 24	25 - 30	> 30

<sup>\*</sup> Poor may also indicate that no impact protector, or impact protector pocket is present in the garment

**Impact Protector Results:** - The table below shows the average and maximum force transmitted through each impact protector type in kilonewtons (kN) and their area of coverage as a proportion (%) of the Zone.

Impact protector type	Knee		Hip
Average force (kN)	23.6	A	Р
Maximum force (kN)	33.1	P	Р
Coverage of Zone 1 area	100%		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	Knee	•		Hip	No impact prot	tector present
Strike location	Centre	Mid	Edge	Centre	Mid	Edge
Impact Protector 1	22.2	22.8	24.4			
Impact Protector 2	20.2	22.7	33.1			
Impact Protector 3	22.5	21.4	23.6			



### Breathability

These pants were 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	thability rating	*	
Breathability score	0.313	Breathability score		0.290	
Moisture Vapour Resis	tance - R <sub>et</sub> (kPa.m²/W)	1	2	Average	
Without removable liners		62.9	63.8	63.3	
With water-resistant liner		50.6	49.9	50.3	
Thermal Resistance - R	ct (K.m²/W)	1	2	Average	
Without removable liners		0.319	0.342	0.331	
With water-resistant liner		0.221	0.265	0.243	

## Water spray and rain resistance

This pants are 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 (%)	
Pants 1	480	35%	204	74%	
Pants 2	392	28%	59	21%	
Average	436	31%	132	48%	

# **Location of wetting**

Major visible wetting to the cotton underwear was present at the waistband of both pants tested.

Assessment Details.	
Brand	Rjays
Model	Tour
Туре	Pants - Textile
Date purchased	15 June 2022
Tested by	AMCAF, Deakin University
Report approved by	MotoCAP Chief Scientist
Garment test reference	P21T01
Rating first published	July 2022
Rating updated	25 July 2022