



#### This MotoCAP safety rating applies to:

Brand Rjays Model Tour 2

Type Pants - Textile
Date purchased 24 March 2025

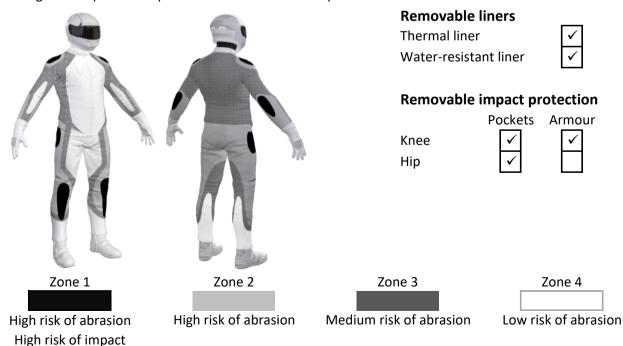
Sizes tested L and XL
Test garment gender Male
Style Tourer
RRP \$299.95

Test Results Summary	Rating	Score
MotoCAP Protection Rating	*	14.4
Abrasion	1/10	0.66
Burst	10/10	1108
Impact	1/10	0.0
MotoCAP Breathability Rating	*	0.238
Moisture Vapour Resistance	-	53.6
Thermal Resistance	-	0.213
Water resistance	10/10	0.1

This garment is fitted with impact protectors for the knees. The foam pads present in hip armour pockets were fillers and not tested as they were not considered impact protectors and would provide limited, if any, energy absorption. Adding hip impact protectors would improve the protection levels of this garment. There are zipped vents in the front and back of the upper 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 are 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 remained unchanged at one-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	0.66

<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)

Abiasion time	ioi eacii test (set	,uiius j							
Zones 1 & 2	Coverage (%)	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Average	
Material A	40%	1.08	0.88	0.96	1.00	0.94		0.97	Р
Material B	60%	1.01	0.66	0.64	0.66	0.64	0.84	0.74	Р
Zone 3	Coverage (%)	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Average	
Material B	100%	1.01	0.66	0.64	0.66	0.64	0.84	0.74	Р
Zone 4	Coverage (%)	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Average	<b></b>
Material B	65%	1.01	0.66	0.64	0.66	0.64	0.84	0.74	М
Material C	35%	0.86	0.72	0.78	0.73	0.60		0.74	М

# Details of materials used in pant

Material A	Double laminated woven fabric shell with mesh inner liner
Material B	Laminated woven fabric shell with mesh inner liner
Material C	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.



<b>Burst Strength</b>	Performance
Dunst noting	10/10

Burst rating 10/10 Burst score 1108

<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	1407	1882	849	833	1439	683	1182	G
Zones 3 & 4	783	754	998	707	931	709	813	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)	10.7	G	Р
Maximum force (kN)	14.4	G	Р
Coverage of Zone 1 area	140%	<del></del>	0%
Coverage of Zone after displacement	100%		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	ector present
Strike location	Centre	Mid	Edge	Centre	Mid	Edge
Impact Protector 1	8.2	10.7	14.4			
Impact Protector 2	8.8	9.1	10.8			
Impact Protector 3	9.7	11.3	13.6			



# **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 lin	ners	With	With water-resistant liner		
Breathability rating	Breat	hability rating	*		
Breathability score	0.238	Breathability score		0.239	
Moisture Vapour Resist	ance - R <sub>et</sub> (kPa.m²/W)	1	2	Average	
Without removable liners		54.0	53.3	53.6	
With water-resistant liner		62.4	62.3	62.4	
Thermal Resistance - R	<sub>ct</sub> (K.m²/W)	1	2	Average	
Without removable liners		0.202	0.224	0.213	
With water-resistant liner		0.249	0.249	0.249	

# Water spray and rain resistance

These pants are advertised as water-resistant, and so have 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 (%)	<b>Water Resistance</b>	
Pants 1	145	10%	0	0%	Performance	
Pants 2	236	17%	1	0%	Water rating	10/10
Average	190	13%	0	0%	Water score	0.14

# **Location of wetting**

There was no visible wetting to the cotton underwear for either pants tested.

# **Assessment Details.**

Brand Rjays
Model Tour 2
Type Pants - Textile

Date purchased 24 March 2025

Tested by AMCAF, Deakin University Report approved by MotoCAP Chief Scientist

Garment test reference P25T11
Rating first published June 2025
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