


**This MotoCAP safety rating applies to:**

**Brand:** Rjays  
**Model:** Voyager V Ladies  
**Type:** Pants - Textile  
**Date purchased:** 26 August 2019  
**Sizes tested:** XL and 2XL  
**Gender:** F  
**Style:** Tourer  
**Test code:** P19T07

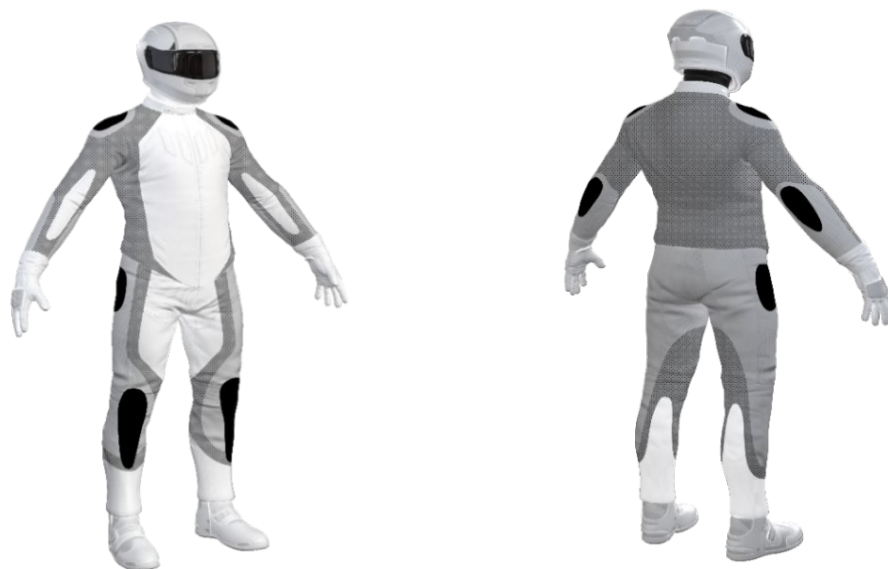
**Test Results Summary:**

	Rating	Score
MotoCAP Protection Rating	↘	11.9
Abrasion	1/10	0.33
Burst	10/10	1060
Impact	0/10	0.0
MotoCAP Comfort Rating	★	0.244
Moisture Vapour Resistance		59.7
Thermal Resistance		0.242
Water resistance	3/10	17

This garment is fitted with impact protectors for the knees. No pockets are provided at the hips for aftermarket impact protectors. There are no vents to allow airflow movement through the garment.

**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

## Abrasion Resistance

The garment was tested for abrasion resistance in accordance with MotoCAP test protocols. 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.

### Details of materials used in garment:

Material A: Woven fabric shell, water-resistant layer and mesh inner liner

Zone	Coverage (%)	Abrasion time for each test (seconds)						Average (seconds)	
		1	2	3	4	5	6		
<b>Zone 1 and 2 areas (High abrasion risk)</b>									
Material A	100%	0.46	0.24	0.30	0.43	0.23	0.31	0.33	P
<b>Zone 3 area (Medium abrasion risk)</b>									
Material A	100%	0.46	0.24	0.30	0.43	0.23	0.31	0.33	P
<b>Zone 4 area (Low abrasion risk)</b>									
Material A	100%	0.46	0.24	0.30	0.43	0.23	0.31	0.33	P

Abrasion times are capped at a maximum of 10.00s.

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 above. The colour coding is based on the worst performing material in each zone.



Determining Criteria		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

## Burst Strength

The garment's burst strength was tested in accordance with MotoCAP test protocols. 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 (kPa)

Area	1	2	3	4	5	Average	
Zones 1 & 2	764	1421	1385	834	807	1042	G
Zone EZ	1237	642	1185	1132	973	1033	G
Zones 3 & 4	996	1304	1210	1360	885	1151	G

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 above.



### Determining Criteria

Burst strength

	Good	Acceptable	Marginal	Poor
(kPa)	> 1000	800 - 1000	500 - 799	< 500

## Impact Protection

The garment was tested for impact protection and coverage in accordance with MotoCAP test protocols. 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.

Impact protector type	Knee			None		
Average force (kN)	28.2	M			P	
Maximum force (kN)	39.8	P			P	
Coverage of zone 1 area	80%			0%		
Coverage of zone after displacement	75%			0%		
Individual test results						
Impact force (kN)	Knee			None	No impact protector present	
Strike location	A	B	C	A	B	C
Impact Protector 1	18.0	24.2	30.2			
Impact Protector 2	19.9	23.4	39.8			
Impact Protector 3	21.3	37.4	39.3			

The diagram below is a visual indication of the likely performance of each impact protector calculated from the data in the table above. The colour coding is based on the worst performing score for average or maximum force for each impact zone.



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

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

Areas shaded black are not considered in the impact protection ratings.

### Thermal comfort

The garment was tested for thermal comfort following the MotoCAP test protocols. The table below shows the moisture vapour resistance and the thermal resistance values obtained.

	1	2	Average
Moisture Vapour Resistance - $R_{et}$ (kPam <sup>2</sup> /W)	55.3	64.1	59.7

	1	2	Average
Thermal Resistance - $R_{ct}$ (Km <sup>2</sup> /W)	0.240	0.245	0.242

### Water spray and rain resistance

This garment 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 (%)
Garment 1	301	29%	24	9%
Garment 2	352	34%	67	25%
<b>Average</b>	326	32%	45	17%

### Location of wetting:

Visible wetting to the cotton underwear worn under the motorcycle water-resistant garment was present at the crotch in one garment and at the lower legs of the other garment tested.