This MotoCAP safety rating applies to:

Brand:	Rjays
Model:	Dune, Ladies
Type:	Pants - Textile
Date purchased:	13 May 2019
Sizes tested:	XL and 2XL
Gender:	F
Style:	All Purpose
Test code:	P19T01

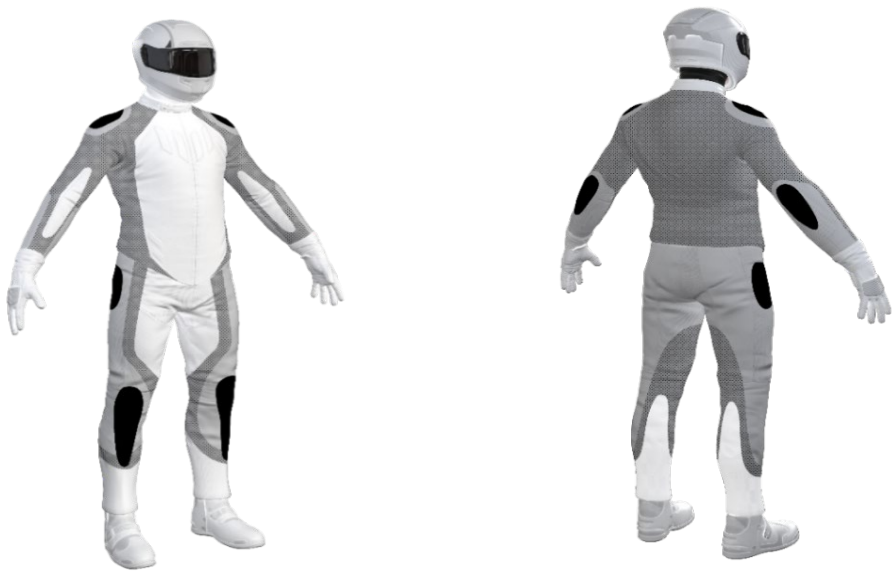
Test Results Summary:

	Rating	Score
MotoCAP Protection Rating	★	11.3
Abrasion	1/10	0.16
Burst	10/10	1051
Impact	0/10	0.0
MotoCAP Comfort Rating	★	0.281
Moisture Vapour Resistance		59.9
Thermal Resistance		0.280
Water resistance	8/10	4.7

This garment is fitted with impact protectors for the knees. There are no pockets provided at the hips for aftermarket impact protectors. There are closable vents on the upper legs to manage airflow movement through the garment. The thermal comfort rating is based on tests of the breathability of the garment when all vents are closed. The thermal comfort of this product may be better when the vents can be opened.

Jacket and Pants - Crash Impact Risk Zones

This diagram is a pictorial representation of the crash impact risk Zones.



Zone 1	Zone 2	Zone 3	Zone 4
High risk of abrasion High risk of impact	High risk of abrasion	Medium risk of abrasion	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.

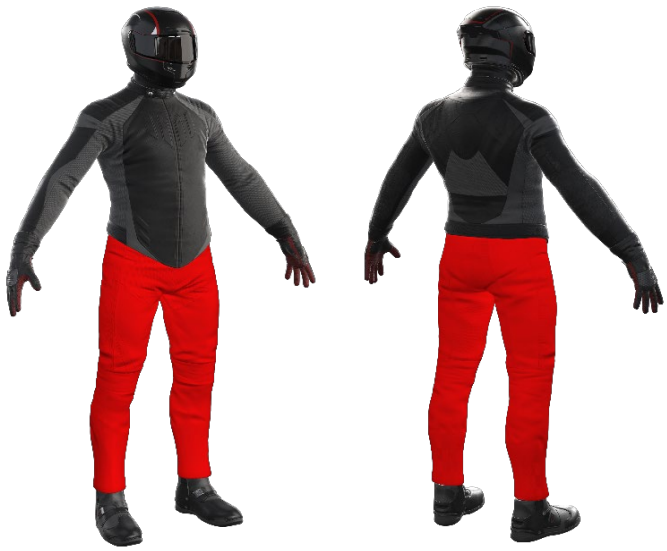
Details of materials used in garment:

Material A:	High density fabric shell, water-resistant layer and mesh inner liner
Material B:	Fabric shell, water-resistant layer and mesh inner liner

Zone	Coverage (%)	Abrasion time for each test (seconds) 1	2	3	4	5	6	Average (seconds)	
Zone 1 and 2 areas (High abrasion risk)									
Material A	50%	0.54	0.56	0.65	0.73	0.82	0.65	0.66	P
Material B	50%	0.32	0.19	0.25	0.36	0.19	0.23	0.26	P
Zone 3 area (Medium abrasion risk)									
Material A	10%	0.54	0.56	0.65	0.73	0.82	0.65	0.66	P
Material B	90%	0.32	0.19	0.25	0.36	0.19	0.23	0.26	P
Zone 4 area (Low abrasion risk)									
Material B	100%	0.32	0.19	0.25	0.36	0.19	0.23	0.26	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	612	1419	861	1266	1211	1074	G
Zone EZ	952	1095	1142	829	1119	1028	G
Zones 3 & 4	872	727	1291	1367	1004	1052	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		Good	Acceptable	Marginal	Poor
Burst strength	(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		Hip	
Average force (kN)	16.8	A		P
Maximum force (kN)	25.3	M		P
Coverage of zone 1 area	40%		0%	
Coverage of zone after displacement	60%		0%	

Individual test results

Impact force (kN)	Knee			Hip	No impact protector present	
Strike location	**A**	**B**	**C**	**A**	**B**	**C**
Impact Protector 1	14.8	14.4	25.3			
Impact Protector 2	15.2	18.2	18.2			
Impact Protector 3	11.6	18.3	15.3			

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 maximium force for each impact zone.

Determining Criteria		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

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} ($kPam^2/W$)	61.4	58.4	59.9

	1	2	**Average**
Thermal Resistance - R_{ct} (Km^2/W)	0.272	0.289	0.280

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	175	15%	19.7	8.1%
Garment 2	524	45%	3.5	1.3%
Average	233	30%	7.7	4.7%

Location of wetting:

Minor visible wetting to the cotton underwear worn under the water-resistant motorcycle garment was present on the lower legs of one garment and the waistband of the other garment tested.