



# This MotoCAP safety rating applies to:

Brand PMJ Model West

Type Jacket - Textile
Date purchased 3 April 2023

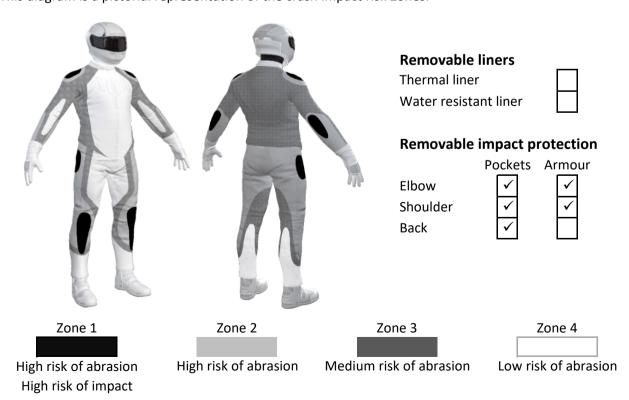
Sizes tested XL
Test garment gender Male
Style Streetwear
RRP \$379.00

Test Results Summary	Rating	Score
MotoCAP Protection Rating	*	19.9
Abrasion	1/10	0.52
Burst	6/10	695
Impact	5/10	34.5
MotoCAP Breathability Rating	**	0.392
Moisture Vapour Resistance	-	35.7
Thermal Resistance	-	0.234
Water resistance	N/A	N/A

This garment is fitted with impact protectors for the elbows and shoulders. A pocket is provided for an aftermarket back protector. 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.





#### **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	0.52

<b>Determining Criteria</b>	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 1 & 2	Coverage (%)	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Average
Material A	70%	0.78	0.52	0.69	1.11	0.55	0.65	0.72
Material B	30%	0.56	0.45	0.45	0.48	0.40	0.34	0.45
Zone 3	Coverage (%)	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Average
Material A	65%	0.78	0.52	0.69	1.11	0.55	0.65	0.72
Material B	35%	0.56	0.45	0.45	0.48	0.40	0.34	0.45
Zone 4	Coverage (%)	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Average
Material B	100%	0.56	0.45	0.45	0.48	0.40	0.34	0.45

## Details of materials used in jacket

Material A	Aramid blended denim fabric shell and fabric inner liner
Material B	Aramid blended denim fabric shell



# **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	6/10
Burst score	695

<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	479	819	582	564	1016	745	701 M	
Zones 3 & 4	617	387	1089	585	689	651	669 M	



#### **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 5/10

Impact score

34.5

<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

**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)	18.7	A	18.7 A
Maximum force (kN)	22.5	A	22.5 A
Coverage of Zone 1 area	80%		100%
Coverage of Zone after displacement	60%		90%

**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				
Strike location	Centre	Mid	Edge	Centre	Mid	Edge
Impact Protector 1	17.1	16.5	20.1	17.1	16.5	20.1
Impact Protector 2	18.1	19.0	22.5	18.1	19.0	22.5
Impact Protector 3	18.1	18.4	18.7	18.1	18.4	18.7



# **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.

tant liner
N/A
N/A
Average
35.7
N/A
Average
0.234
N/A
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# Water spray and rain resistance

This jacket has not been advertised as water-resistant so has not been tested for water spray and rain resistance.

## **Assessment Details.**

Brand PMJ Model West

Type Jacket - Textile
Date purchased 3 April 2023

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

Garment test reference J23T13
Rating first published May 2023
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