



This MotoCAP safety rating applies to:

Brand Ixon
Model Burning
Type Jacket - Textile

Date purchased

Sizes tested L and XL
Test garment gender Male
Style All Purpose
RRP \$429.95

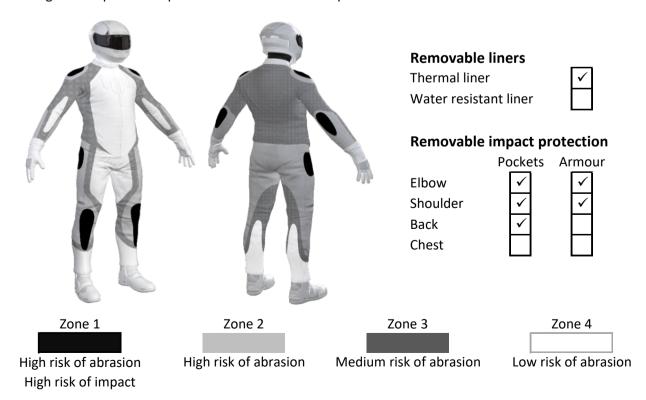
Test Results Summary	Rating	Score
MotoCAP Protection Rating	*	22.4
Abrasion	1/10	0.25
Burst	10/10	1412
Impact	3/10	23.5
MotoCAP Breathability Rating	+	0.149
Moisture Vapour Resistance	-	97.6
Thermal Resistance	-	0.242
Water resistance	2/10	22.9

24 March 2025

This garment is fitted with impact protectors for the elbows and shoulders. A pocket is provided for an aftermarket back protector. There are zipped vents in the arms 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. Breathability was measured without the removable thermal liner installed.

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	0.25

Determining Criteria	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	100%	0.35	0.18	0.27	0.12	0.27	0.31	0.25
Zone 3	Coverage (%)	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Average
Material A	100%	0.35	0.18	0.27	0.12	0.27	0.31	0.25
Zone 4	Coverage (%)	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Average
Material A	100%	0.35	0.18	0.27	0.12	0.27	0.31	0.25

Details of materials used in jacket

Material A Woven fabric shell with laminated water-resistant layer and mesh inner liner



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.



Burs	t St	trength	Performance	
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Burst rating	10/10
Burst score	1412

Determining Criteria	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	1740	1161	1746	1519	1841	1076	1514	G
Zones 3 & 4	1076	1020	972	852	959	1139	1003	G



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 3/10 Impact score 23.5

Determining Criteria	Unit	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

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)	24.8	A	24.8 A
Maximum force (kN)	26.6	M	26.6 M
Coverage of Zone 1 area	80%		80%
Coverage of Zone after displacement	70%		80%

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	21.8	25.9	26.6	21.8	25.9	26.6
Impact Protector 2	23.1	26.0	23.9	23.1	26.0	23.9
Impact Protector 3	24.9	26.3	24.9	24.9	26.3	24.9



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.

Without removable I	With	Vith water-resistant liner		
Breathability rating		Breat	hability rating	N/A
Breathability score	0.149	Breat	hability score	N/A
Moisture Vapour Resis	stance - R _{et} (kPa.m²/W)	1	2	Average
Without removable liner	S	100.1	95.1	97.6
With water-resistant line	r	N/A	N/A	N/A
Thermal Resistance - I	R _{ct} (K.m²/W)	1	2	Average
Without removable liner	S	0.242	0.242	0.242
With water-resistant line	r	N/A	N/A	N/A

Water spray and rain resistance

This jacket 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 (%)	Water Resistar	nce
Jacket 1	491	42%	39	14%	Performance	
Jacket 2	234	20%	90	32%	Water rating	2/10
Average	362	31%	64	23%	Water Score	22.92

Location of wetting

There was major wetting to the cotton underwear present at the cuffs of the sleeves for both jackets and major wetting at the abdomen of the second jacket tested.

Brand	lxon
Model	Burning
Туре	Jacket - Textile
Date purchased	24 March 2025
Tested by	AMCAF, Deakin University
Report approved by	MotoCAP Chief Scientist
Garment test reference	J25T23
Rating first published	June 2025
Rating updated	18 June 2025