


This MotoCAP safety rating applies to:

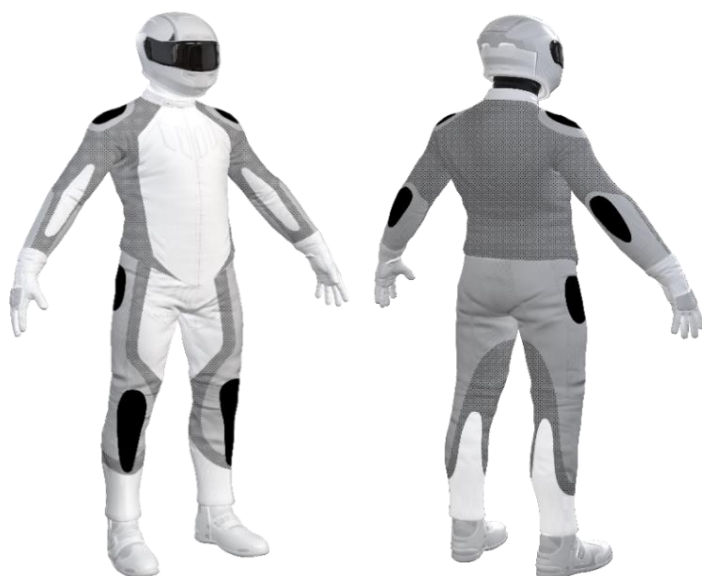
Brand	Ixon
Model	Eddas
Type	Pants - Textile
Date purchased	24 March 2025
Sizes tested	L and XL
Test garment gender	Male
Style	All Purpose
RRP	\$449.96


Test Results Summary	Rating	Score
MotoCAP Protection Rating	★★	28.2
Abrasion	1/10	0.80
Burst	9/10	934
Impact	7/10	49.7
MotoCAP Breathability Rating	★★	0.344
Moisture Vapour Resistance	-	42.6
Thermal Resistance	-	0.245
Water resistance	8/10	4.1


This garment is fitted with impact protectors for the knees and hips. There are zipped vents in 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. 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.



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

Removable liners

Thermal liner ☒

Water-resistant liner ☐

Removable impact protection

	Pockets	Armour
Knee	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Hip	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

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	0.80

Determining Criteria	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)

Zones 1 & 2	Coverage (%)	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Average	
Material A	60%	1.13	1.43	1.05	1.04	1.23	1.15	1.17	P
Material B	40%	0.91	0.61	0.93	0.93	0.62	0.97	0.83	P
Zone 3	Coverage (%)	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Average	
Material B	100%	0.91	0.61	0.93	0.93	0.62	0.97	0.83	M
Zone 4	Coverage (%)	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Average	
Material B	45%	0.91	0.61	0.93	0.93	0.62	0.97	0.83	M
Material C	55%	0.65	0.48	0.55	0.50	0.58	0.60	0.56	M

Details of materials used in pant

Material A	Coarse woven fabric shell and water-resistant liner
Material B	Woven fabric shell and water-resistant liner
Material C	Stretch woven fabric shell and water-resistant 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.



Burst Strength Performance

Burst rating	9/10
Burst score	934

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	989	857	764	1021	884	1227	957	A
Zones 3 & 4	887	704	936	889	827	814	843	A

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	7/10
Impact score	49.7

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

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)	16.7	A	10.7	G
Maximum force (kN)	22.5	A	12.2	G
Coverage of Zone 1 area	90%		130%	
Coverage of Zone after displacement	70%		100%	

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		
	Centre	Mid	Edge	Centre	Mid	Edge
Impact Protector 1	15.7	15.8	17.0	9.5	10.6	12.1
Impact Protector 2	13.1	18.3	19.8	10.3	10.9	11.1
Impact Protector 3	14.4	13.6	22.5	9.6	10.2	12.2

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 liners		With water-resistant liner	
Breathability rating	★★	Breathability rating	N/A
Breathability score	0.344	Breathability score	N/A

Moisture Vapour Resistance - R_{et} (kPa.m ² /W)	1	2	Average
Without removable liners	42.8	42.4	42.6
With water-resistant liner	N/A	N/A	N/A

Thermal Resistance - R_{ct} (K.m ² /W)	1	2	Average
Without removable liners	0.248	0.241	0.245
With water-resistant liner	N/A	N/A	N/A

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		Water Resistance Performance	
	Volume (ml)	Percentage (%)	Volume (ml)	Percentage (%)		
Pants 1	408	30%	14	5%	Water rating 8/10 Water score 4.13	
Pants 2	488	36%	7	3%		
Average	448	33%	11	4%		

Location of wetting

Minor wetting to the cotton underwear was present at the waistband for one pair of pants tested.

Assessment Details.

Brand	Ixon
Model	Eddas
Type	Pants - Textile
Date purchased	24 March 2025
Tested by	AMCAF, Deakin University
Report approved by	MotoCAP Chief Scientist
Garment test reference	P25T12
Rating first published	June 2025
Rating updated	18 June 2025