



This MotoCAP safety rating applies to:

Brand Harley Davidson
Model Fremont Triple Vent
Type Jacket - Leather
Date purchased 12 September 2022

Sizes tested XL and 2XL

Test garment gender Male

Style All Purpose RRP \$913.02

Test Results Summary	Rating	Score
MotoCAP Protection Rating	**	38.9
Abrasion	7/10	5.20
Burst	10/10	1289
Impact	1/10	0.0
MotoCAP Breathability Rating	+	0.158
Moisture Vapour Resistance	-	77.0
Thermal Resistance	-	0.203
Water resistance	N/A	N/A

Pockets are provided at the shoulders, elbows and back for fitting aftermarket impact protectors. Adding elbow and shoulder impact protectors would improve the protection levels of this garment. There are zipped vents in the chest, sides and back 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 can be opened.

Jacket and Pants - Crash Impact Risk Zones

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

		Removable Thermal lines Water-resists Removable Elbow Shoulder Back	r 🔲
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 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	7/10
Abrasion score	5.20

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%	7.43	7.69	7.68	4.95	5.66	8.94	7.06	G
Material B	40%	3.60	4.43	3.67	5.46	3.35	4.38	4.15	Α
Zone 3	Coverage (%)	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Average	
Material B	100%	3.60	4.43	3.67	5.46	3.35	4.38	4.15	G
Zone 4	Coverage (%)	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Average	
Material B	100%	3.60	4.43	3.67	5.46	3.35	4.38	4.15	G

Details of materials used in jacket

Material A Leather shell, foam layer and mesh inner lining

Material B Leather shell with mesh inner lining



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 S	Strength	Performance	
-				

Burst rating	10/10
Burst score	1289

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	1340	1194	1061	1340	1507	1507	1325	G
Zones 3 & 4	1073	1430	591	1041	1429	1324	1148	G



Impact Protection

This jacket was not tested for impact protection as impact protectors were not provided with the garment. 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 1/10
Impact score 0.0

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	Elbow	Shoulder
Average force (kN)	P	P
Maximum force (kN)	P	P
Coverage of Zone 1 area	0%	0%
Coverage of Zone after displacement	0%	0%

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	No impact protector present		Shoulder	No impact pro	tector present
Strike location	Centre	Mid	Edge	Centre	Mid	Edge
Impact Protector 1						

Impact Protector 2
Impact Protector 3



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 li	ners	With	water-resist	ant liner
Breathability rating	7	Breathability rating N/A		
Breathability score	0.158	Breathability score N/A		
Moisture Vapour Resis	tance - R _{et} (kPa.m²/W)	1	2	Average
Without removable liners		75.7	78.4	77.0
With water-resistant liner		N/A	N/A	N/A
Thermal Resistance - R	ct (K.m²/W)	1	2	Average
Without removable liners		0.201	0.206	0.203
With water-resistant liner		N/A	N/A	N/A

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.

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Tested by AMCAF, Deakin University

Report approved by MotoCAP Chief Scientist

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