



This MotoCAP safety rating applies to:

Brand Harley Davidson

Model Geyser Stretch Riding

Type Jacket - Textile

Date purchased 13 January 2021

Sizes tested XL and 2XL

Test garment gender Male

Style Cruiser RRP \$669.55

Test Results Summary	Rating	Score
MotoCAP Protection Rating	**	31.1
Abrasion	4/10	3.12
Burst	8/10	863
Impact	3/10	22.8
MotoCAP Breathability Rating	*	0.287
Moisture Vapour Resistance	-	52.3
Thermal Resistance	-	0.250
Water resistance	N/A	N/A

This garment is fitted with fixed impact protectors for the elbows and shoulders. A pocket is provided for an aftermarket back protector. There are zipped vents in the chest, arms 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 liner Water resista Removable Elbow Shoulder Back	
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	4/10
Abrasion score	3.12

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%	4.01	3.41	3.67	3.52	3.40	3.49	3.58	Α
Zone 3	Coverage (%)	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Average	<u></u>
Material C	20%	3.01	3.52	3.01	2.66	2.78	2.94	2.99	G
Material B	80%	2.34	2.75	1.94	2.65	2.11	2.05	2.31	Α
Zone 4	Coverage (%)	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Average	
Material C	15%	3.01	3.52	3.01	2.66	2.78	2.94	2.99	G
Material B	85%	2.34	2.75	1.94	2.65	2.11	2.05	2.31	G

Details of materials used in jacket

Material A	Fabric shell, foam layer, fabric layer and 3D mesh inner liner
Material B	Fabric shell with 3D mesh inner liner
Material C	Stretch fabric with 3D 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.



Burst Strength	Performance

Burst rating	8/10
Burst score	863

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	672	1123	1056	849	643	528.6	812	Α
Zones 3 & 4	942	1394	1502	766	393	1412	1068	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	22.8

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)	24.1	A	25.7 M
Maximum force (kN)	24.9	A	27.5 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	23.3	24.2	24.9	24.7	25.0	24.7
Impact Protector 2	23.5	24.2	24.5	25.2	26.3	25.8
Impact Protector 3	24.3	24.3	24.0	25.8	27.5	26.2



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 liners		With water-resistant liner			
Breathability rating ★		Breat	N/A		
Breathability score	0.287	Breathability score		N/A	
Moisture Vapour Resistance - R _{et} (kPa.m²/W)		1	2	Average	
Without removable liners		50.6	54.1	52.3	
With water-resistant liner		N/A	N/A	N/A	
Thermal Resistance - R	_t (K.m²/W)	1	2	Average	
Without removable liners		0.249	0.252	0.250	
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.

Assessment Details.

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Tested by AMCAF, Deakin University

Garment test reference J20T08
Rating first published August 2021
Rating updated 30 August 2021