


**This MotoCAP safety rating applies to:**

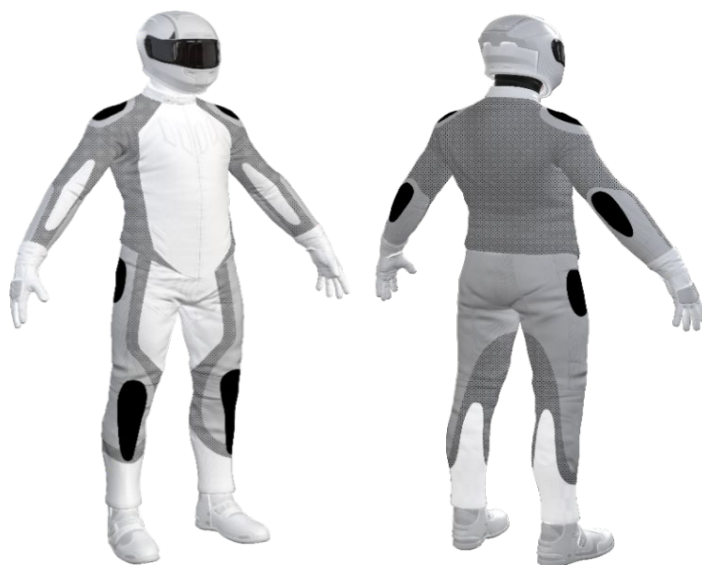
Brand	Brixton
Model	Classic
Type	Jacket - Leather
Date purchased	23 November 2020
Sizes tested	2XL and 3XL
Test garment gender	Male
Style	All Purpose
RRP	\$379.00


Test Results Summary	Rating	Score
MotoCAP Protection Rating	★★	41.9
Abrasion	7/10	4.97
Burst	10/10	1140
Impact	3/10	18.6
MotoCAP Breathability Rating	★★★	0.424
Moisture Vapour Resistance	-	32.0
Thermal Resistance	-	0.227
Water resistance	N/A	N/A


This garment is fitted with impact protectors for the elbows, shoulders and back. Replacing the elbow and shoulder armour with higher performing impact protectors would improve the protection levels of this garment. There are zipped vents in the chest 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. 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	<input checked="" type="checkbox"/>
Water-resistant liner	<input type="checkbox"/>

**Removable impact protection**

	Pockets	Armour
Elbow	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Shoulder	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Back	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

## 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	4.97

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	100%	4.78	3.71	5.27	4.59	5.89	5.61	4.97	A
Zone 3	Coverage (%)	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Average	
Material A	100%	4.78	3.71	5.27	4.59	5.89	5.61	4.97	G
Zone 4	Coverage (%)	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Average	
Material A	100%	4.78	3.71	5.27	4.59	5.89	5.61	4.97	G

### Details of materials used in jacket

Material A	Leather shell with mesh inner liner
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## 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	10/10
Burst score	1140

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	1652	1074	705	1159	1285	1006	1147	G
Zones 3 & 4	1288	883	1030	813	1758	910	1114	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	18.6

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)	25.3	M	30.1	P
Maximum force (kN)	29.3	M	35.2	P
Coverage of Zone 1 area	85%		95%	
Coverage of Zone after displacement	80%		95%	

**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		
	Centre	Mid	Edge	Centre	Mid	Edge
Impact Protector 1	24.0	25.1	28.3	23.5	29.4	35.2
Impact Protector 2	22.1	25.9	29.3	25.2	30.6	33.6
Impact Protector 3	23.9	23.3	26.2	28.0	30.1	35.2

### 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	★★★	Breathability rating	N/A
Breathability score	0.424	Breathability score	N/A

Moisture Vapour Resistance - $R_{et}$ (kPa.m <sup>2</sup> /W)	1	2	Average
Without removable liners	34.4	29.7	32.0
With water-resistant liner	N/A	N/A	N/A
Thermal Resistance - $R_{ct}$ (K.m <sup>2</sup> /W)	1	2	Average
Without removable liners	0.234	0.219	0.227
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.

Brand	Brixton
Model	Classic
Type	Jacket - Leather
Date purchased	23 November 2020
Tested by	AMCAF, Deakin University
Garment test reference	J19L38
Rating first published	January 2021
Rating updated	5 January 2021