



# This MotoCAP safety rating applies to:

Brand: Blackbird Model: Monza

Type: Jacket - Leather

Date purchased: 26 August 2019

Sizes tested: L and 2XL

Gender: M
Style: Cruiser
Test code: J19L30

## **Test Results Summary:**

Rating	Score
**	32.5
4/10	3.11
10/10	1005
3/10	23.0
**	0.380
	47.7
	0.303
N/A	N/A
	★★ 4/10 10/10 3/10 ★★

This garment is fitted with impact protectors for the elbows, shoulders and back. There are no vents to allow airflow movement through the garment.

# **Jacket and Pants - Crash Impact Risk Zones**

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



High risk of abrasion High risk of impact

Zone 1

Zone 2

High risk of abrasion



Zone 3

Medium risk of abrasion

Zone 4

Low risk of abrasion



#### **Abrasion Resistance**

The garment was tested for abrasion resistance in accordance with MotoCAP test protocols. 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.

## **Details of materials used in garment:**

Material A: Leather shell with fabric inner liner

Zone	Coverage	Abrasion	Average					
	(%)	1	2	3	4	5	6	(seconds)
Zone 1 and 2	areas (High abra	asion risk)						
Material A	100%	1.81	1.99	4.70	3.60	2.56	4.03	3.11 A
Zone 3 area (	Medium abrasio	n risk)						
Material A	100%	1.81	1.99	4.70	3.60	2.56	4.03	3.11 <b>G</b>
Zone 4 area (	Low abrasion ris	sk)						
Material A	100%	1.81	1.99	4.70	3.60	2.56	4.03	3.11 <b>G</b>

Abrasion times are capped at a maximum of 10.00s.

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 above. The colour coding is based on the worst performing material in each zone.



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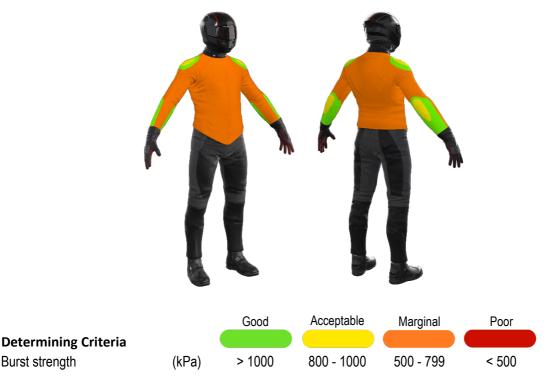
# **Burst Strength**

The garment's burst strength was tested in accordance with MotoCAP test protocols. 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 (kPA)

Area	1	2	3	4	5	Average
Zones 1 & 2	776	1063	853	1040	954	937 A
Zone EZ	1467	1144	1142	1038	1270	1212 <b>G</b>
Zones 3 & 4	622	340	739	1142	796	728 M

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 above.





## **Impact Protection**

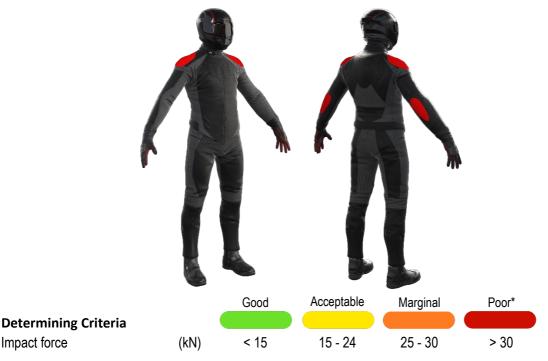
The garment was tested for impact protection and coverage in accordance with MotoCAP test protocols. The table below shows the test results for each strike on each impact protector in kilonewtons (kN) and their area of coverage as a proportion (%) of the Zone.

Impact protector type	Elbow	Shoulder	
Average force (kN)	24.4 A	26.6 <b>N</b>	/
Maximum force (kN)	31.8 P	37.8 <b>F</b>	0
Coverage of zone 1 area	105%	110%	_
Coverage of zone after displacement	95%	100%	

#### Individual test results

Impact force (kN)	Elbow	Shoulder				
Strike location	Α	В	С	Α	В	С
Impact Protector 1	20.9	21.4	30.4	19.5	24.0	28.6
Impact Protector 2	22.0	20.1	31.8	21.4	27.3	31.9
Impact Protector 3	21.0	28.6	23.5	21.3	27.7	37.8

The diagram below is a visual indication of the likely performance of each impact protector calculated from the data in the table above. The colour coding is based on the worst performing score for average or maximium force for each impact zone.



<sup>\*</sup> Poor may also indicate that no impact protector, or impact protector pocket is present in the garment

Areas shaded black are not considered in the impact protection ratings.



#### Thermal comfort

The garment was tested for thermal comfort following the MotoCAP test protocols. The table below shows the moisture vapour resistance and the thermal resistance values obtained.

	1	2	Average
Moisture Vapour Resistance - Ret	48.2	47.2	47.7
(kPam²/W)			
	1	2	Average
Thermal Resistance - R <sub>ct</sub>	0.286	0.319	0.303
(Km <sup>2</sup> /W)			

# Water spray and rain resistance

This garment has not been advertised as water resistant so has not been tested for water spray and rain resistance.