

MOTOCAP

This MotoCAP safety rating applies to:

Brand:	Klim
Model:	Badlands Pro
Туре:	Jacket - Textile
Date purchased:	4 March 2019
Sizes tested:	L and XL
Gender:	M & F
Style:	All Purpose
Test code:	J19T09

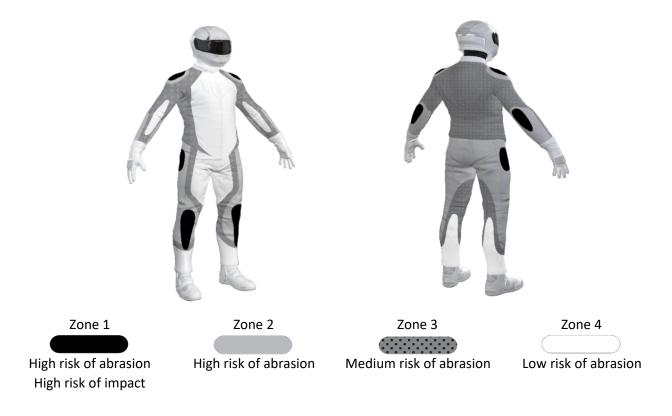
Test Results Summary:

	Rating	Score
MotoCAP Protection Rating	***	51.7
Abrasion	3/10	2.33
Burst	10/10	1435
Impact	10/10	85.7
MotoCAP Comfort Rating	+	0.079
Moisture Vapour Resistance		240.9
Thermal Resistance		0.319
Water resistance	4/10	13.9

This garment is fitted with impact protectors for the elbows, shoulders and back. Vents are located on the chest, sides, back and arms to allow airflow cooling in hot weather. The thermal comfort rating is based on tests of the breathability of the garment when all vents are closed. The thermal comfort 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.





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.

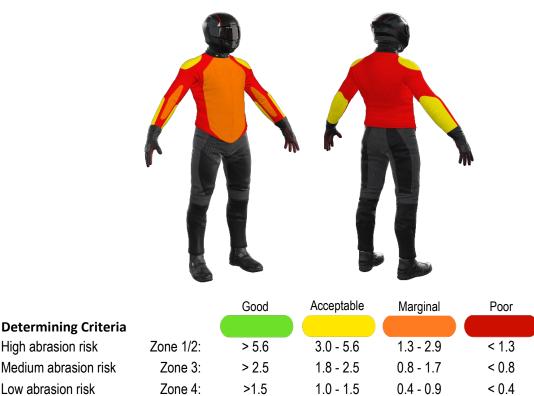
Details of materials used in garment:

	•
Material A:	Superfabric™ patch over ripstop fabric shell, water resistant layer and mesh inner liner
Material B:	Woven fabric shell, water resistant layer and mesh inner liner
Material C:	Ripstop fabric shell, water resistant layer and mesh inner liner

Zone	Coverage	Abrasion time for each test (seconds)						Average
	(%)	1	2	3	4	5	6	(seconds)
Zone 1 and 2	areas (High abra	asion risk)						
Material A	100%	3.58	1.93	5.18	3.52	3.03	4.08	3.55 <mark>A</mark>
Zone 3 area (l	Medium abrasio	n risk)						
Material B	70%	0.42	0.36	0.29	0.50	0.39	0.63	0.43 P
Material C	30%	0.69	0.55	0.83	0.00	0.00	0.00	0.69 P
Zone 4 area (Low abrasion ris	sk)						
Material B	70%	0.42	0.36	0.29	0.50	0.39	0.63	0.43 M
Material C	30%	0.69	0.55	0.83	0.00	0.00	0.00	0.69 M

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.



High abrasion risk

Low abrasion risk

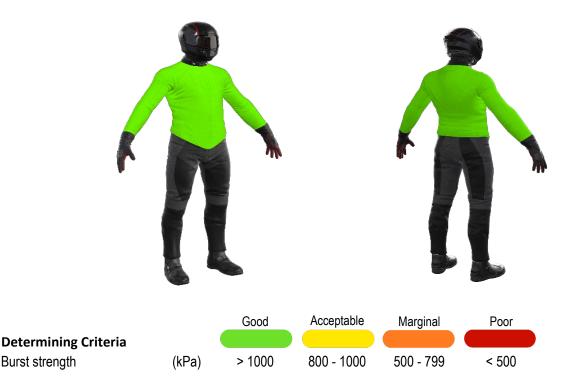


Burst Strength

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	1375	1495	1821	1778	1284	1551 G
Zone EZ	1340	1616	1560	1480	1272	1454 G
Zones 3 & 4	1060	1198	1109	1057	1419	1168 G

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.



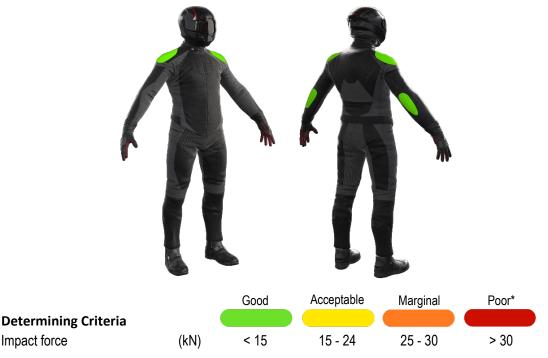


Impact Protection

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)		9.3	G		8.8	G
Maximum force (kN)		12.5	G		11.3	G
Coverage of zone 1 area		150%			120%	<u> </u>
Coverage of zone after of	lisplacement	100%			100%	
Individual test results						
Impact force (kN)	Elbow			Shoulder		
Strike location	Α	В	С	Α	В	С
Impact Protector 1	8.2	8.5	9.8	7.9	9.3	9.0
Impact Protector 2	12.5	8.5	8.5	8.0	8.4	9.4
Impact Protector 3	8.2	8.8	10.5	8.5	11.3	7.7

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.



* 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.

Impact force



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 - R _{et}	241.9	239.9	240.9
(kPam²/W)			
	1	2	Average
			•
Thermal Resistance - R _{ct}	0.307	0.330	0.319

Water spray and rain resistance

This garment is advertised as water-resistant, and so has 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 absorbe	ed by garment	Water absorbed by underwear		
	Volume (ml)	Percentage (%)	Volume (ml)	Percentage (%)	
Garment 1	237.7	10%	21.3	8%	
Garment 2	262.6	11%	55.5	20%	
Average	250.2	10%	38.4	14%	

Location of wetting:

Visible wetting to the cotton underwear worn under the motorcycle water resistant garment was present at the cuffs of the sleves with one garment and at a minor level on the chest of the other garment tested.