



This MotoCAP safety rating applies to:

Brand Klim
Model Baja S4
Type Pants - Textile
Date purchased 20 October 2021

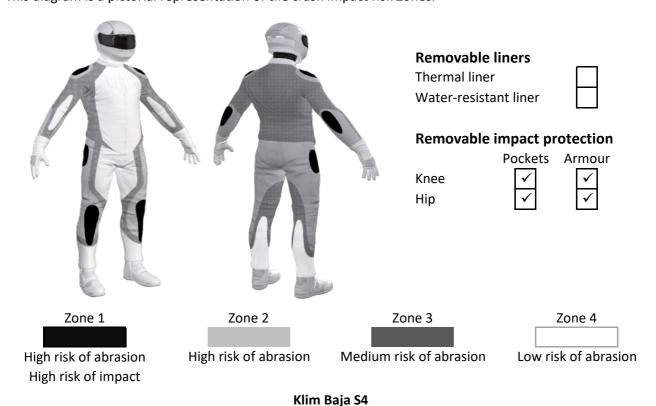
Sizes tested 38
Test garment gender Male
Style Tourer
RRP \$765.00

Test Results Summary	Rating	Score
MotoCAP Protection Rating	**	38.4
Abrasion	3/10	2.16
Burst	10/10	1194
Impact	7/10	52.2
MotoCAP Breathability Rating	****	0.674
Moisture Vapour Resistance	-	19.6
Thermal Resistance	-	0.220
Water resistance	N/A	N/A

This garment is fitted with impact protectors for the knees and hips. Mesh panels are located in the front of the upper and lower legs to allow airflow movement through the garment.

Jacket and Pants - Crash Impact Risk Zones

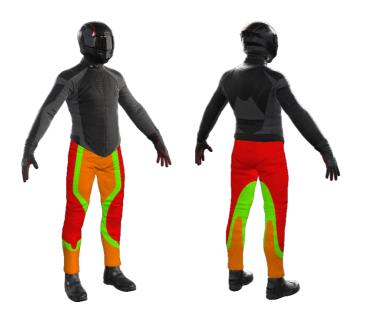
This diagram is a pictorial representation of the crash impact risk Zones.





Abrasion Resistance

These pants were 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	3/10
Abrasion score	2.16

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	70%	1.46	1.77	1.64	1.35	1.47	1.49	1.53	М
Material B	30%	0.73	0.94	0.63	0.60	0.78	0.76	0.74	Р
Zone 3	Coverage (%)	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Average	
Material C	40%	6.36	5.32	6.34	5.93	5.27	4.67	5.65	G
Material D	60%	2.97	3.66	3.67	6.18	4.97	3.74	4.20	G
Zone 4	Coverage (%)	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Average	
Material D	60%	2.97	3.66	3.67	6.18	4.97	3.74	4.20	G
Material B	40%	0.73	0.94	0.63	0.60	0.78	0.76	0.74	M

Details of materials used in jacket

Material A	Plastic dot coated woven fabric snell with mesh inner liner
Material B	Woven fabric shell with mesh inner liner
Material C	Perforated leather patch over woven fabric shell with fabric inner liner
Material D	Mesh fabric shell with mesh inner liner



Burst Strength

These pants were 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	1194

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	1505	1285	1484	680	838	1091	1147	G
Zones 3 & 4	770	1132	702	1942	1947	1790	1380	G



Impact Protection

These pants were 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 7/10 Impact score 52.2

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	Knee		Hip
Average force (kN)	16.3	A	16.1 A
Maximum force (kN)	19.7	A	18.0 A
Coverage of Zone 1 area	110%		120%
Coverage of Zone after displacement	70%		100%

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	Knee			Hip		
Strike location	Centre	Mid	Edge	Centre	Mid	Edge
Impact Protector 1	15.0	17.9	16.7	14.7	15.2	17.4
Impact Protector 2	15.3	16.1	16.3	15.2	16.2	17.3
Impact Protector 3	14.4	15.4	19.7	15.4	15.4	18.0



Breathability

These pants were 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	****	Brea	N/A			
Breathability score 0.674		Brea	N/A			
Moisture Vapour Res	istance - R _{et} (kPa.m²/W)	1	2	Average		
Without removable line	rs	20.0	19.1	19.6		
With water-resistant lin	er	N/A	N/A	N/A		
Thermal Resistance -	R _{ct} (K.m ² /W)	1	2	Average		
Without removable line	ers	0.225	0.215	0.220		
With water-resistant lin	er	N/A	N/A	N/A		

Water spray and rain resistance

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

Assessment Details.

Brand Klim

Model Baja S4

Type Pants - Textile

Date purchased 20 October 2021

Tested by AMCAF, Deakin University
Report approved by MotoCAP Chief Scientist

Garment test reference P20T15

Rating first published November 2021
Rating updated 29 November 2021