



This MotoCAP safety rating applies to:

Brand Klim

Model Latitude Gore-Tex
Type Pants - Textile
Date purchased 16 May 2022

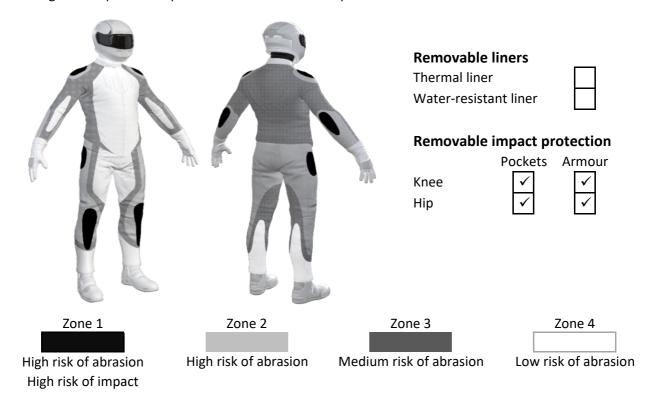
Sizes tested 38
Test garment gender Male
Style Tourer
RRP \$845.00

Test Results Summary	Rating	Score
MotoCAP Protection Rating	***	40.6
Abrasion	2/10	1.52
Burst	10/10	1726
Impact	7/10	52.4
MotoCAP Breathability Rating	***	0.455
Moisture Vapour Resistance	-	38.2
Thermal Resistance	-	0.290
Water resistance	9/10	1.1

This garment is fitted with impact protectors for the knees and hips. There are zipped vents in the side and back of the upper legs 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

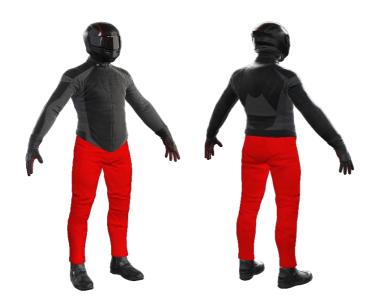
This diagram is a pictorial representation of the crash impact risk Zones.





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	2/10
Abrasion score	1.52

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)

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Zones 1 & 2	Coverage (%)	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Average
Material A	90%	1.67	1.23	1.98	1.58	1.57	1.32	1.56
Material B	10%	0.53	0.55	0.30	0.33	0.32	0.35	0.39
Zone 3	Coverage (%)	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Average
Material C	30%	10.00	9.46	9.13	6.14	9.29	8.34	8.73
Material B	70%	0.53	0.55	0.30	0.33	0.32	0.35	0.39
Zone 4	Coverage (%)	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Average
Material B	100%	0.53	0.55	0.30	0.33	0.32	0.35	0.39

Details of materials used in jacket

Material A	Coarse woven fabric shell, water-resistant layer and fabric inner liner
Material B	Woven fabric shell with laminated water-resistant layer and fabric inner liner
Material C	Leather shell, water-resistant layer and fabric 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	1726

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	2000	1784	1640	1880	1909	1022	1706	G
Zones 3 & 4	1792	1807	2002	1471	1811	1955	1806	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

52.4

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)	16.1	A	16.6 A
Maximum force (kN)	17.7	A	17.7 A
Coverage of Zone 1 area	105%		130%
Coverage of Zone after displacement	50%		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	15.2	16.8	16.8	15.9	17.7	17.4
Impact Protector 2	15.6	14.4	17.7	16.3	16.0	15.4
Impact Protector 3	16.1	15.0	17.0	17.3	16.9	16.4



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	***	Breat	thability rating	N/A
Breathability score	0.455	Breat	thability score	N/A
Moisture Vapour Resis	tance - R _{et} (kPa.m²/W)	1	2	Average
Without removable liners	3	37.9	38.4	38.2
With water-resistant line	N/A	N/A	N/A	
Thermal Resistance - F	R _{ct} (K.m²/W)	1	2	Average
Without removable liners	3	0.290	0.290	0.290
With water-resistant line	r	N/A	N/A	N/A

Water spray and rain resistance

This pants are 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 absorbed by garment		Water absorbed by underwear		
	Volume (ml)	Percentage (%)	Volume (ml)	Percentage (%)	
Pants 1	74	5%	4	1.7%	
Pants 2	76	5%	1	0.5%	
Average	75	5%	3	1.1%	

Location of wetting

There was no visible wetting of the cotton underwear on either pair of the pants tested.

Brand	Klim
Model	Latitude Gore-Tex
Туре	Pants - Textile
Date purchased	16 May 2022

Assessment Details.

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

Garment test reference P21T02
Rating first published July 2022
Rating updated 25 July 2022