This MotoCAP safety rating applies to:

Brand:	Berik
Model:	2.0 Sport
Type:	Pants - Leather
Date purchased:	20 November 2018
Sizes tested:	52
Gender:	M
Style:	Sports
Test code:	P18L06

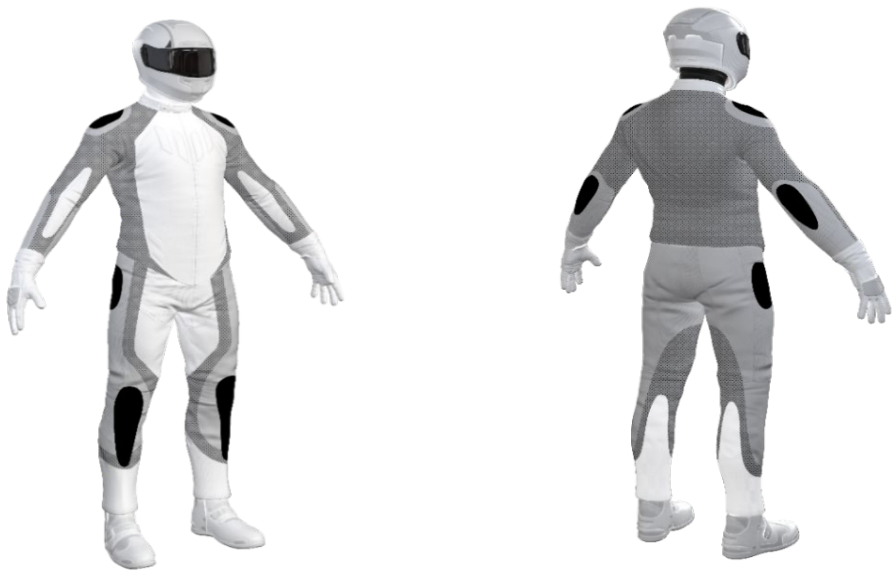
Test Results Summary:

	Rating	Score
MotoCAP Protection Rating	★★★★	57.7
Abrasion	10/10	7.40
Burst	10/10	1077
Impact	5/10	33.1
MotoCAP Comfort Rating	★	0.268
Moisture Vapour Resistance		53.0
Thermal Resistance		0.237
Water resistance	N/A	N/A

This garment is fitted with impact protectors for the knees and hips. This garment has perforated leather panels in the front of the upper part of the leg to aid cooling in hot weather.

Jacket and Pants - Crash Impact Risk Zones

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



Zone 1	Zone 2	Zone 3	Zone 4
High risk of abrasion High risk of impact	High risk of abrasion	Medium risk of abrasion	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:	Velcro fabric outer, double layer of leather, foam layer and mesh inner liner
Material B:	Double layer of leather outer and mesh inner liner
Material C:	Single layer of leather outer and mesh inner liner
Material D:	Stretch synthetic fabric outer and mesh inner liner

Zone	Coverage (%)	Abrasion time for each test (seconds) 1	2	3	4	5	6	Average (seconds)	
Zone 1 and 2 areas (High abrasion risk)									
Material A	70%	10.00	10.00	10.00	10.00	10.00	10.00	10.00	G
Material B	30%	8.54	10.00	6.96	10.00	4.45	4.67	7.44	G
Zone 3 area (Medium abrasion risk)									
Material C	90%	6.96	10.00	4.45	4.67			6.52	G
Material D	10%	0.85	0.61	0.79	0.90	0.65	0.85	0.77	P
Zone 4 area (Low abrasion risk)									
Material C	30%	6.96	10.00	4.45	4.67			6.52	G
Material D	70%	0.85	0.61	0.79	0.90	0.65	0.85	0.77	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.

Determining Criteria		Good	Acceptable	Marginal	Poor
High abrasion risk	Zone 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

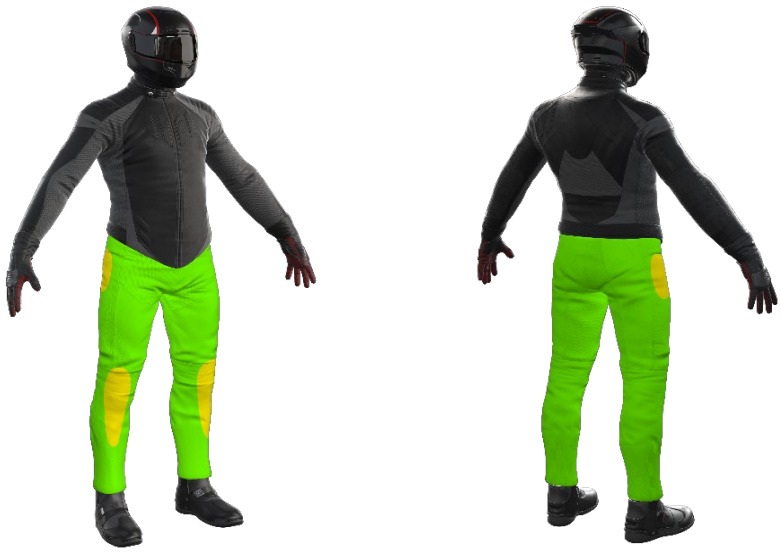
Burst Strength

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	585	1010	713	1489	743	908	A
Zone EZ	1357	1354	1418	856	926	1182	G
Zones 3 & 4	1504	940	972	1457	1142	1203	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.



Determining Criteria		Good	Acceptable	Marginal	Poor
Burst strength	(kPa)	> 1000	800 - 1000	500 - 799	< 500

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 kilonewton (kN) and their area of coverage as a proportion (%) of the Zone.

Impact protector type	Knee		Hip	
Average force (kN)	24.7	M	23.2	A
Maximum force (kN)	29.9	M	24.3	M
Coverage of zone 1 area	150%		80%	
Coverage of zone after displacement	90%		80%	

Individual test results

Impact force (kN)	Knee			Hip		
Strike location	**A**	**B**	**C**	**A**	**B**	**C**
Impact Protector 1	20.3	24.4	29.6	23.8	22.5	22.5
Impact Protector 2	21.4	23.0	28.0	24.1	24.3	24.3
Impact Protector 3	21.3	24.8	29.9	22.1	22.4	22.4

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.

Determining Criteria		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

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 - R_{et} ($kPam^2/W$)	46.6	59.4	53.0

	1	2	**Average**
Thermal Resistance - R_{ct} (Km^2/W)	0.252	0.222	0.237

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.

Assessment Details.

Brand	Berik
Model	2.0 Sport
Type	Pants - Leather
Date purchased	20 November 2018
Tested by	AMCAF, Deakin University
Garment test reference	P18L06
Rating first published	April 2019
Rating updated	1 October 2021