



This MotoCAP safety rating applies to:

Brand Draggin Model **Kevlar Classic** Type Pants - Denim Date purchased 16 May 2022 Sizes tested 38 and 40 Male Test garment gender Style All Purpose RRP \$289.00

Test Results Summary	Rating	Score
MotoCAP Protection Rating	**	29.6
Abrasion	6/10	4.34
Burst	7/10	784
Impact	1/10	0.0
MotoCAP Breathability Rating	****	0.653
Moisture Vapour Resistance	-	24.6
Thermal Resistance	-	0.268
Water resistance	N/A	N/A

Pockets are provided at the knees and hips for fitting aftermarket impact protectors. Adding knee and hip impact protectors would improve the protection levels of this garment. 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.

		Removable Thermal liner Water-resista Removable Knee Hip	. 🔲
Zone 1	Zone 2	Zone 3	Zone 4
III de del estado de la constanta de la consta	High wight of allowed an	NA diversible of almosis a	Lavariale of almosis a
High risk of abrasion High risk of impact	High risk of abrasion	Medium risk of abrasion	Low risk of abrasion
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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	6/10
Abrasion score	4.34

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)

100%	6.09	4.86	9.39	40.00				
			9.39	10.30	6.19	4.85	6.95	G
Coverage (%)	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Average	
100%	0.65	0.42	0.41	0.43	0.37	0.35	0.44	Ρ
Coverage (%)	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Average	
100%	0.65	0.42	0.41	0.43	0.37	0.35	0.44	М
_	100% Coverage (%)	100% 0.65 Coverage (%) Sample 1	100% 0.65 0.42 Coverage (%) Sample 1 Sample 2	100% 0.65 0.42 0.41 Coverage (%) Sample 1 Sample 2 Sample 3	100% 0.65 0.42 0.41 0.43 Coverage (%) Sample 1 Sample 2 Sample 3 Sample 4	100% 0.65 0.42 0.41 0.43 0.37 Coverage (%) Sample 1 Sample 2 Sample 3 Sample 4 Sample 5	100% 0.65 0.42 0.41 0.43 0.37 0.35 Coverage (%) Sample 1 Sample 2 Sample 3 Sample 4 Sample 5 Sample 6	100% 0.65 0.42 0.41 0.43 0.37 0.35 0.44 Coverage (%) Sample 1 Sample 2 Sample 3 Sample 4 Sample 5 Sample 6 Average

Details of materials used in jacket

Material A	Denim fabric shell with para-aramid fabric inner liner

Material B Denim fabric shell



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	7/10
Burst score	784

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	848	1209	869	860	636	561	830	Α
Zones 3 & 4	614	548	457	690	722	556	598	М



Impact Protection

These pants were not tested for impact protection as impact protectors were not provided with the garment. 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 1/10 Impact score 0.0

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)	P	P
Maximum force (kN)	Р	P
Coverage of Zone 1 area	0%	0%
Coverage of Zone after displacement	0%	0%

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	No impact protector present		Hip No impact protector present		
Strike location	Centre	Mid	Edge	Centre	Mid	Edge
Impact Protector 1						
Impact Protector 2						
Impact Protector 3						



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	With water-resistant liner				
Breathability rating ★★★★		Brea	thability rating	N/A	
Breathability score	eathability score 0.653		Breathability score		
Moisture Vapour Resistance - R _{et} (kPa.m²/W)		1	2	Average	
Without removable line	rs	24.4	24.8	24.6	
With water-resistant lin	er	N/A	N/A	N/A	
Thermal Resistance -	1	2	Average		
Without removable line	rs	0.261	0.274	0.268	
With water-resistant lin	N/A	N/A	N/A		

Water spray and rain resistance

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

Assessment Details.

Brand Draggin
Model Kevlar Classic
Type Pants - Denim
Date purchased 16 May 2022

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

Garment test reference P21D01
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