

MOTOCAP

This	MotoCAP	safety rat	ing app	lies to:
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Brand:	DriRider
Model:	Vortex Adventure 2
Туре:	Pants - Textile
Date purchased:	17 October 2018
Sizes tested:	54
Gender:	M & F
Style:	Tourer
Test code:	P18T02

Test Results Summary:

	Rating	Score
MotoCAP Protection Rating	*	20.4
Abrasion	1/10	0.90
Burst	10/10	1586
Impact	1/10	0.0
MotoCAP Comfort Rating	*	0.277
Moisture Vapour Resistance		50.8
Thermal Resistance		0.199
Water resistance	9/10	2.1

This garment is fitted with impact protectors for the knees and with pockets for aftermarket impact protectors for the hips. This garment has vents in the upper thigh areas to aid cooling in hot weather. Comfort measurements were conducted with the removable waterproof membrane installed. The thermal comfort of this product would be better in dry conditions without the waterproof liner installed.

Jacket and Pants - Crash Impact Risk Zones

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



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:	Coarse weave polyester fabric shell and mesh inner liner
Material B:	Woven polyester fabric shell and mesh inner liner
Material C:	Stretch fabric shell and mesh inner liner

Zone	Coverage	Abrasion	time for eac	ch test (seo	conds)			Average
	(%)	1	2	3	4	5	6	(seconds)
Zone 1 and 2	areas (High abra	asion risk)						
Material A	40%	0.65	0.69	1.58	0.82	1.07	1.81	1.10 P
Material B	60%	1.19	0.69	0.89	0.82	1.09	1.22	0.98 P
Zone 3 area (Medium abrasio	n risk)						
Material B	70%	1.19	0.69	0.89	0.82	1.09	1.22	0.98 P
Material C	30%	0.52	0.34	0.39	0.36			0.40 P
Zone 4 area (Low abrasion ris	sk)						
Material B	100%	1.19	0.69	0.89	0.82	1.09	1.22	0.98 M

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.



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	663	1320	1068	1644	1941	1327	G
Zone EZ	1940	1938	1470	1270	1940	1712	G
Zones 3 & 4	1906	1656	1823	1933	1935	1850	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 kilonewton (kN) and their area of coverage as a proportion (%) of the Zone.

Impact protector type		Knee			Hip	
Average force (kN)		29.2	Μ			Ρ
Maximum force (kN)		34.0	Р			Ρ
Coverage of zone 1 area		110%			0%	
Coverage of zone after displacement		10%			0%	
Individual test results						
Impact force (kN)	Knee			Hip	No impact prot	ector present
Strike location	Α	В	С	Α	В	С
Impact Protector 1	25.4	30.1	26.7			
Impact Protector 2	28.0	32.7	23.4			
Impact Protector 3	28.5	33.7	34.0			

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

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.

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	1	2	Average
Moisture Vapour Resistance - R _{et}	52.1	49.5	50.8
(kPam²/W)			
	1	2	Average
Thermal Resistance - R _{ct}	0.195	0.203	0.199
(Km²/W)			

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 increased weight (g) and proportion (%) of the garment and undergarments due to water absorption.

	Water absorb	ed by garment	Water absorbed by underwear		
	Mass (g)	Percentage (%)	Mass (g)	Percentage (%)	
Pants 1	873.8	53%	5.1	2%	
Average	873.8	53%	5.07	2%	

Location of wetting:

There was no visible wetting evident on the cotton undergarments worn under the motorcycle water resistant pants after testing.