



This MotoCAP safety rating applies to:

Brand: Triumph
Model: Thorpe

Type: Jacket - Textile

Date purchased: 31 October 2018

Sizes tested: XL and L

Gender: M

Style: All Purpose Test code: J18T16

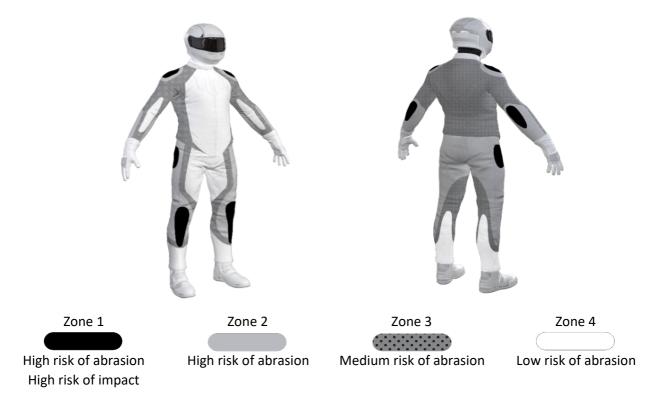
Test Results Summary:

	Rating	Score
MotoCAP Protection Rating	*	19.0
Abrasion	1/10	0.17
Burst	7/10	748
Impact	5/10	35.6
MotoCAP Comfort Rating	*	0.270
Moisture Vapour Resistance		37.2
Thermal Resistance		0.167
Water resistance	1/10	31

This water resistant jacket is fitted with impact protectors for the elbows, shoulders, and back. There is no venting to allow airflow 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.





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.

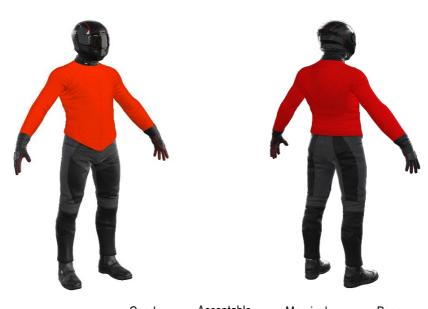
Details of materials used in garment:

Material A: Nylon fabric with laminated water resistant layer shell and mesh inner liner

Material B: Nylon fabric with laminated water resistant layer shell

Zone	Coverage	e Abrasion time for each test (seconds)						Average
	(%)	1	2	3	4	5	6	(seconds)
Zone 1 and 2	areas (High abra	asion risk)						
Material A	60%	0.71	0.52	0.75	0.65	0.56	0.70	0.65 P
Material B	40%	0.15	0.12	0.08	0.14	0.12	0.14	0.13 P
Zone 3 area (I	Medium abrasio	n risk)						<u> </u>
Material A	80%	0.71	0.52	0.75	0.65	0.56	0.70	0.65 P
Material B	20%	0.15	0.12	0.08	0.14	0.12	0.14	0.13 P
Zone 4 area (I	Low abrasion ris	sk)						
Material B	100%	0.15	0.12	0.08	0.14	0.12	0.14	0.13 P

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.



		Good	Acceptable	Marginal	Poor	
Determining Criteria						
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	



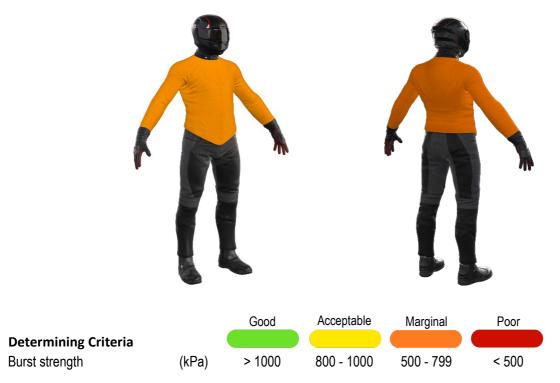
Burst Strength

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	716	848	787	783	728	773 M
Zone EZ	872	793	681	713	681	748 M
Zones 3 & 4	829	849	499	685	632	699 M

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

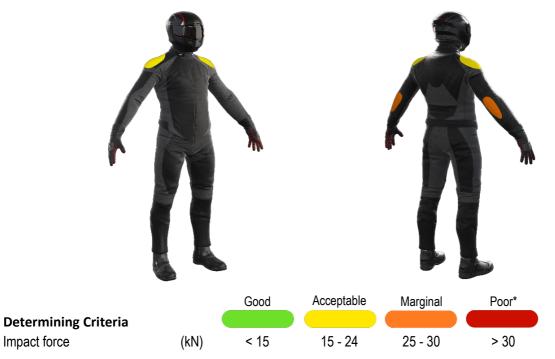
The garment was tested for impact protection and coverage in accordance with MotoCAP test protocols. The table below shows the test results for each strike on each impact protector in kilonewton (kN) and their area of coverage as a proportion (%) of the Zone.

Impact protector type	Elbow		Shoulder
Average force (kN)	22.4	A	20.6 A
Maximum force (kN)	26.9	M	22.7 A
Coverage of zone 1 area	90%		120%
Coverage of zone after displacement	70%		100%

Individual test results

Impact force (kN)	Elbow			Shoulder		
Strike location	Α	В	С	Α	В	С
Impact Protector 1	22.9	21.6	21.4	20.7	18.3	21.4
Impact Protector 2	20.8	26.9	21.4	21.2	22.7	19.7
Impact Protector 3	20.9	20.4	25.1	21.4	20.6	19.5

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 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 - Ret	36.3	38.1	37.2
(kPam²/W)			
	1	2	Average
Thermal Resistance - R _{ct}	0.172	0.163	0.167
(Km ² /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 absorbe	ed by garment	Water absorbed by underwear		
	Volume (ml)	Percentage (%)	Volume (ml)	Percentage (%)	
Jacket 1	237	31%	151	54%	
Jacket 2	242	32%	22	8%	
Average	239	32%	87	31%	

Location of wetting:

Visible wetting to the cotton undergarment worn under the motorcycle water resistant jacket was present on the neck and the chest.