

MOTOCAP

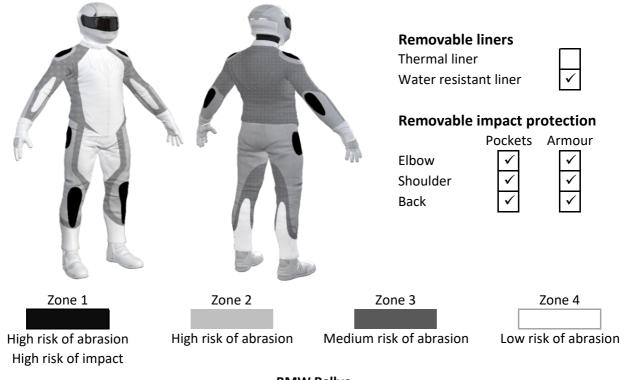
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Brand	BMV	N		
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		et - Textile		
		cember 202	20	
Sizes tested	50 ar	nd 56		
Test garment gender	9			
Style	Tour	er		
RRP	\$1,32	20.00		
Test Results Summary		Rating	Score	
Test Results Summary MotoCAP Protection Rati	ing	Rating ★★	Score 38.4	
	ng			
MotoCAP Protection Rati	ng	**	38.4	
MotoCAP Protection Rati	ng	★★ 1/10	38.4 0.22	
MotoCAP Protection Rati Abrasion Burst		★★ 1/10 10/10	38.4 0.22 1573	
MotoCAP Protection Rati Abrasion Burst Impact	ating	★★ 1/10 10/10 9/10	38.4 0.22 1573 72.0	
MotoCAP Protection Rati Abrasion Burst Impact MotoCAP Breathability R	ating	★★ 1/10 10/10 9/10	38.4 0.22 1573 72.0 0.315	
MotoCAP Protection Rati Abrasion Burst Impact MotoCAP Breathability R Moisture Vapour Resista	ating	★★ 1/10 10/10 9/10	38.4 0.22 1573 72.0 0.315 53.7	

This MotoCAP safety rating applies to:

This garment is fitted with impact protectors for the elbows, shoulders and back. There are zipped vents in the arms and zipped mesh pannels in the chest and back 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. This garment has a removable water-resistant liner. The breathability rating above was achieved with the water-resistant liner removed. When tested with the water-resistant liner installed, the breathability rating reduced to 1 star.

Jacket and Pants - Crash Impact Risk Zones

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



BMW Rallye Textile Jacket



Abrasion Resistance

The jacket was 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	1/10
Abrasion score	0.22

Determining Criteria	Area	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

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)

Zone 1 & 2	Coverage (%)	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Average
Material A	55%	3.24	3.01	4.50	4.97			3.93 A
Material B	45%	0.32	0.33	0.32	0.61	0.31	0.46	0.39 P
Zone 3	Coverage (%)	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Average
Material C	50%	2.72	3.11	3.35	4.64			3.45 G
Material B	50%	0.32	0.33	0.32	0.61	0.31	0.46	0.39 P
Zone 4	Coverage (%)	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Average
Material B	100%	0.32	0.33	0.32	0.61	0.31	0.46	0.39 P

Details of materials used in jacket

Material A	Plastic coated fabric shell and mesh inner liner
Material B	Water-repellent fabric shell and mesh inner liner
Material C	Water-repellent fabric shell, mesh fabric layer, fabric layer and mesh inner liner



Burst Strength

The jacket was 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	1573				

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.

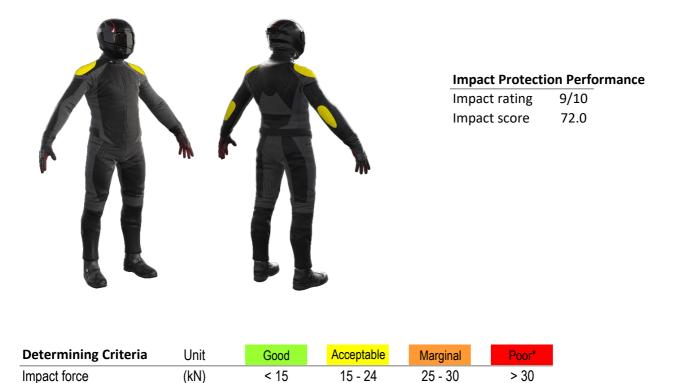
Burst pressure for each seam (kPA)

Area	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Average	
Zones 1 & 2	1949	1090	1823	1951	1346	1428.1	1598	G
Zones 3 & 4	1634	1943	1429	941	1308	1593.2	1475	G



Impact Protection

The jacket was 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 maximium force for each impact zone. Areas shaded black are not considered for impact protection ratings.



* Poor may also indicate that no impact protector, or impact protector pocket is present in the garment

Individual Impact Protector Results: - The table below shows the test results for each strike on each impact protector in kilonewtons (kN) and their area of coverage as a proportion (%) of the Zone. Individual strike results are capped at a maximum of 50kN.

Impact protector type	Elbow		Shoulder
Average force (kN)	9.8	G	14.4 G
Maximum force (kN)	15.3	A	19.6 A
Coverage of Zone 1 area	150%		120%
Coverage of Zone after displacement	100%		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	Elbow			Shoulder		
Strike location	Centre	Mid	Edge	Centre	Mid	Edge
Impact Protector 1	7.9	8.5	9.4	14.0	10.6	19.6
Impact Protector 2	7.5	7.9	15.3	13.4	16.9	17.8
Impact Protector 3	8.1	8.2	15.0	10.5	14.8	12.5



Breathability

The jacket was tested for breathability following the MotoCAP test protocols. The table below shows the moisture vapour resistance and the thermal resistance values obtained.

Without removable I	iners	With	n water-resista	ant liner
Breathability rating	**	Breat	hability rating	*
Breathability score	0.315	Breat	hability score	0.283
Moisture Vapour Resis	stance - R _{et} (kPa.m ² /W)	1	2	Average
Without removable liner	S	51.0	56.3	53.7
With water-resistant line	r	70.0	69.0	69.5
Thermal Resistance - I	R _{ct} (K.m²/W)	1	2	Average
Without removable liner	S	0.281	0.284	0.282
With water-resistant line	r	0.323	0.333	0.328

Water spray and rain resistance

This jacket 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 water absorbed (ml) and the wetting 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	744	31%	139	48%	
Jacket 2	668	28%	66	23%	
Average	706	30%	103	35%	

Location of wetting

There was major wetting to the cotton underwear present at the neck and chest for both jackets tested.