


This MotoCAP safety rating applies to:

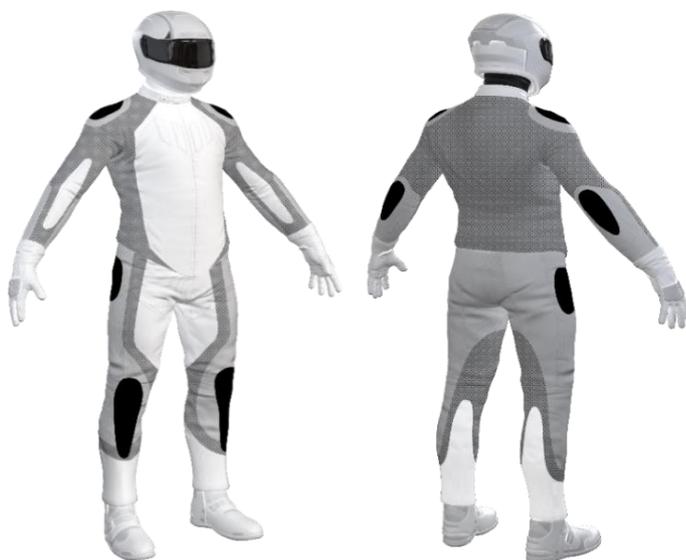
Brand	Komine
Model	JK-574 F-Touring RAMA II
Type	Jacket - Textile
Date purchased	9 January 2023
Sizes tested	XL
Test garment gender	Male
Style	Tourer
RRP	\$549.00

Test Results Summary	Rating	Score
MotoCAP Protection Rating	★	23.5
Abrasion	1/10	0.44
Burst	10/10	1067
Impact	5/10	35.5
MotoCAP Breathability Rating	★	0.043
Moisture Vapour Resistance	-	536.2
Thermal Resistance	-	0.387
Water resistance	1/10	39.2

This garment is fitted with impact protectors for the elbows, shoulders and back. Pockets are provided for aftermarket chest protectors. Replacing the elbow and shoulder armour with higher performing impact protectors would improve the protection levels of this garment. There are zipped vents in the chest, arms and back to allow controlled airflow movement through the garment. The long vent in the arm increases risk of burst failure when open more than 180mm. 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 thermal and water-resistant liners removed. When tested with the water-resistant liner installed, the breathability rating reduced but remained within half a star.

Jacket and Pants - Crash Impact Risk Zones

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


Removable liners

Thermal liner	<input checked="" type="checkbox"/>
Water resistant liner	<input checked="" type="checkbox"/>

Removable impact protection

	Pockets	Armour
Elbow	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Shoulder	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Back	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

High risk of impact

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 0.44

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	100%	0.59	0.31	0.68	0.38	0.43	0.26	0.44	P
Zone 3	Coverage (%)	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Average	
Material A	100%	0.59	0.31	0.68	0.38	0.43	0.26	0.44	P
Zone 4	Coverage (%)	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Average	
Material A	100%	0.59	0.31	0.68	0.38	0.43	0.26	0.44	M

Details of materials used in jacket

Material A Woven fabric shell with 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	1067

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	1221	963	651	1443	894	1398	1095	G
Zones 3 & 4	822	732	967	1027	899	1270	953	A

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 maximum force for each impact zone. Areas shaded black are not considered for impact protection ratings.



Impact Protection Performance

Impact rating 5/10
Impact score 35.5

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

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)	23.0	A	25.2	M
Maximum force (kN)	26.0	M	28.7	M
Coverage of Zone 1 area	120%		100%	
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		
	Centre	Mid	Edge	Centre	Mid	Edge
Impact Protector 1	26.0	21.8	23.4	24.9	23.8	26.1
Impact Protector 2	23.8	22.8	22.4	24.2	28.7	27.3
Impact Protector 3	22.2	22.1	22.3	22.0	24.3	25.3

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 liners		With water-resistant liner	
Breathability rating	↘	Breathability rating	↘
Breathability score	0.043	Breathability score	0.034

Moisture Vapour Resistance - R_{et} (kPa.m ² /W)	1	2	Average
Without removable liners	521.3	551.2	536.2
With water-resistant liner	872.1	753.6	812.8

Thermal Resistance - R_{ct} (K.m ² /W)	1	2	Average
Without removable liners	0.399	0.376	0.387
With water-resistant liner	0.445	0.465	0.455

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 absorbed by garment		Water absorbed by underwear	
	Volume (ml)	Percentage (%)	Volume (ml)	Percentage (%)
Jacket 1	896	41%	115	40%
Jacket 2	682	32%	112	39%
Average	789	36%	113	39%

Location of wetting

There was major wetting to the cotton underwear present at the cuffs of the sleeves for both jackets tested.

Assessment Details.

Brand	Komine
Model	JK-574 F-Touring RAMA II
Type	Jacket - Textile
Date purchased	9 January 2023
Tested by	AMCAF, Deakin University
Report approved by	MotoCAP Chief Scientist
Garment test reference	J23T02
Rating first published	March 2023
Rating updated	20 March 2023