This MotoCAP safety rating applies to:

Brand:	Dainese
Model:	Lola D1
Type:	Jacket - Leather
Date purchased:	23 May 2019
Sizes tested:	46
Gender:	F
Style:	Sports
Test code:	J19L17

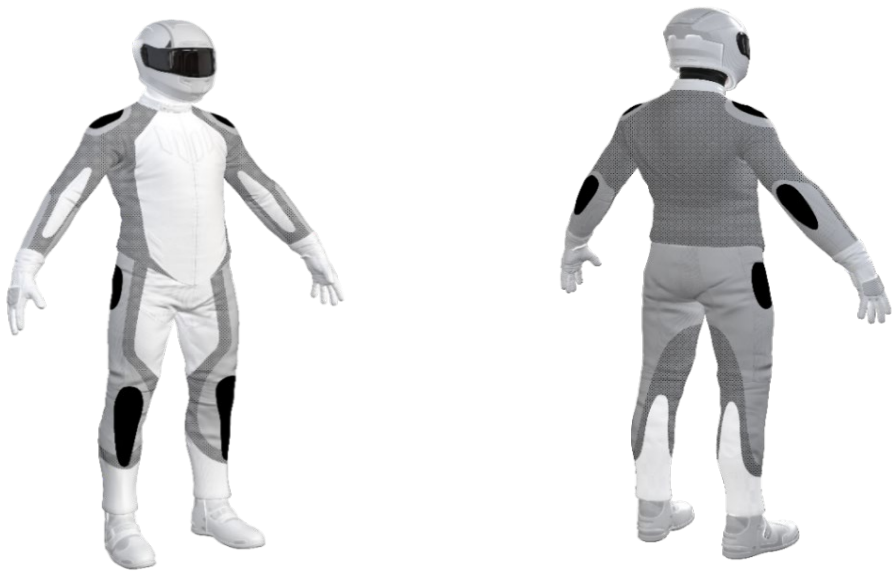
Test Results Summary:

	Rating	Score
MotoCAP Protection Rating	★★★	42.0
Abrasion	5/10	4.01
Burst	10/10	1078
Impact	5/10	37.2
MotoCAP Comfort Rating	★	0.129
Moisture Vapour Resistance		101.6
Thermal Resistance		0.218
Water resistance	N/A	N/A

This garment is fitted with impact protectors for the elbows and shoulders. A pocket is provided at the back for an aftermarket impact protector. There are no vents to allow airflow cooling in hot weather.

Jacket and Pants - Crash Impact Risk Zones

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



Zone 1
High risk of abrasion
High risk of impact

Zone 2
High risk of abrasion

Zone 3
Medium risk of abrasion

Zone 4
Low risk of abrasion

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:	Quilted leather shell with quilted fabric inner liner
Material B:	Leather shell with quilted fabric inner liner

Zone	Coverage (%)	Abrasion time for each test (seconds) 1	2	3	4	5	6	Average (seconds)	
Zone 1 and 2 areas (High abrasion risk)									
Material A	35%	7.76	10.00	10.00	6.50	10.00	10.00	9.04	G
Material B	65%	4.89	2.65	2.80	3.84	4.46	2.02	3.44	A
Zone 3 area (Medium abrasion risk)									
Material B	100%	4.89	2.65	2.80	3.84	4.46	2.02	3.44	G
Zone 4 area (Low abrasion risk)									
Material B	100%	4.89	2.65	2.80	3.84	4.46	2.02	3.44	G

Abrasion times are capped at a maximum of 10.00s.

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.

Determining Criteria		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

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	1030	1038	1018	1250	1123	1092	G
Zone EZ	1482	1111	737	1101	989	1084	G
Zones 3 & 4	802	1457	776	647	1504	1037	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.

Determining Criteria		Good	Acceptable	Marginal	Poor
Burst strength	(kPa)	> 1000	800 - 1000	500 - 799	< 500

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 kilonewtons (kN) and their area of coverage as a proportion (%) of the Zone.

Impact protector type	Elbow		Shoulder	
Average force (kN)	16.9	A	17.0	A
Maximum force (kN)	18.1	A	19.1	A
Coverage of zone 1 area	80%		80%	
Coverage of zone after displacement	90%		90%	

Individual test results

Impact force (kN)	Elbow			Shoulder		
Strike location	**A**	**B**	**C**	**A**	**B**	**C**
Impact Protector 1	17.1	16.3	16.8	16.7	15.8	17.9
Impact Protector 2	16.9	16.5	17.0	17.6	15.8	18.7
Impact Protector 3	16.1	17.0	18.1	16.4	15.3	19.1

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.

Determining Criteria		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

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 - R_{et} ($kPam^2/W$)	105.5	97.8	101.6

	1	2	**Average**
Thermal Resistance - R_{ct} (Km^2/W)	0.164	0.271	0.218

Water spray and rain resistance

This garment has not been advertised as water resistant so has not been tested for water spray and rain resistance.

Assessment Details.

Brand	Dainese
Model	Lola D1
Type	Jacket - Leather
Date purchased	23 May 2019
Tested by	AMCAF, Deakin University
Garment test reference	J19L17
Rating first published	August 2019
Rating updated	1 October 2021