



## This MotoCAP safety assessment applies to:

Brand Dainese

Model Plastic shell with foam liner

Part Number PC 21 L1
Recent test date 4 May 2021
Limb Knee
Type Size A
CE Level CE Level 1

CE Level CE Level
CE test temperature Normal
RRP N/A

Test Results Summary	Performance	Score	
MotoCAP Armour Performance	2/10	11.6	_

This armour was tested for impact protection and coverage in accordance with MotoCAP test protocols. 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.

Poor

Poor

Average force (kN) 31.0 Maximum force (kN) 42.5

Knee coverage 100%

Force transfer for each impact strike (kN)

## **Determining Criteria**

Strike location	Centre	Mid	Edge	Force (kN)	
Impact Protector 1	19.4	31.6	16.1	< 15 Good	
Impact Protector 2	29.5	40.4	42.5	15 - 24 Acceptable	
Impact Protector 3	29.0	29.7	40.5	25 - 30 Marginal	
				> 30 Poor	

**Previous Performance:** The results in the table below are for the last nine times this impact protector model was tested. They indicate the consistancy of the products performance over time.

Test date	4/05/2021	10/12/2020	3/07/2020	N/A	N/A	N/A	N/A	N/A	N/A
Average force (kN)	31.0	33.3	31.2	N/A	N/A	N/A	N/A	N/A	N/A
Max force (kN)	42.5	43.0	42.8	N/A	N/A	N/A	N/A	N/A	N/A
Coverage (%)	100%	100%	100%	N/A	N/A	N/A	N/A	N/A	N/A
Armour score	11.6	8.6	11.0	N/A	N/A	N/A	N/A	N/A	N/A
Armour performance	2/10	1/10	2/10	N/A	N/A	N/A	N/A	N/A	N/A

## **Assessment Details.**

Brand Dainese

Model Plastic shell with foam liner

Limb Knee

Recent test date 4 May 2021

Tested by AMCAF, Deakin University

Armour test reference A24K07

First Published October 2021

Performance updated 15 October 2021



## Glossary

The armour described in these reports is certified by the manufacturer to EN1621-1:2015 standards. Certification details, including type, CE level, and CE test temperature, are provided for easy identification of the armour both online and in-store. MotoCAP results, shown in the columns for Performance /10, Score, Average Force, Maximum Force, and Previous performance, are tested and calculated according to MotoCAP protocols. MotoCAP armour testing is conducted at 23°C and 50% humidity.

Туре	Specifies the EN1621-1:2015 armour size classification. Type B is larger than Type A.
CE Level	Indicates the protection level of the armour according to EN1621-1:2015. Level 2 offers greater impact energy absorption compared to Level 1.
CE test temperature	CE certified armour tested by the manufacturer according to EN1621-1:2015 at 23°C and 50% humidity only is denoted by "normal". Armour certified at an additional lower temperature (-10°C) is denoted by "T-". Armour certified at an additional higher temperature (40°C) is denoted by "T+".
Performance /10	MotoCAP performance out of 10, reflecting the level of protection based on the MotoCAP score. Higher performance indicates better protection.
Score	The MotoCAP score for the armour, derived from the average force, maximum force, and coverage of the specified limb zone 1 risk area.
Average (Avg.) force	The average force measured from nine impacts on the armour. A lower average force indicates higher impact protection.
Maximum (Max) force	The highest force measured from the nine impacts. A lower maximum force indicates better protection.
Coverage %	The extent of the zone 1 risk area covered by the impact protector. Coverage is limb-specific and varies for different body parts. Higher coverage numbers denote better higher coverage and increased protection.
Previous performance	Shows MotoCAP performance from impact protectors previously evaluated. Multiple results may be listed if a model of impact protector has been tested on multiple dates, providing insights into armour consistency.
RRP	The recommended retail price (RRP) in Australian dollars (\$AUD), sourced from online and in-store retailers, for reference purposes. N/A reflects limited or no availability at test date and is included for reference only.
Test date	The date of the most recent test for the armour.
Test date	