

# ANCAP Safety Rating KIA PICANTO

(AUSTRALIA: June 2017 – December 2023)

(NEW ZEALAND: May 2017 - December 2023)



**ANCAP**

Safety ★★★★★



Kia Picanto

## This ANCAP safety rating applies to:

|              |                                                                                 |
|--------------|---------------------------------------------------------------------------------|
| Make / Model | Kia Picanto                                                                     |
| Year Range   | June 2017 – December 2023 (Australia)<br>May 2017 – December 2023 (New Zealand) |
| Variant(s)*  | All variants                                                                    |
| Vehicle Type | Light Car                                                                       |

The tested model of Kia Picanto was introduced in New Zealand in mid-2017. This ANCAP safety rating applies to all New Zealand variants built from May 2017 and Australian variants built from June 2017 when production upgrades were introduced.

Dual frontal, side chest and side head-protecting airbags (curtains) are standard. An autonomous emergency braking (AEB) system which operates at city and interurban speeds is standard. A full list of safety features and technologies can be viewed within the *Safety Features & Technologies* table on page 2 of this report.

## Injury Outcomes.

### Full Width Frontal

Driver Rear Passenger



### Frontal Offset

Driver Front Passenger



### Side Impact

Driver



### Pole

Driver



### Whiplash Protection

Rear



Front



## Test Results Summary.

|                                  |                          |
|----------------------------------|--------------------------|
| <b>Airbags</b>                   | Dual Frontal, Side, Head |
| <b>Adult Occupant Protection</b> | 87% (33.29 out of 38)    |
| - Full Width Frontal Test        | 6.54 (out of 8)          |
| - Frontal Offset Test            | 6.57 (out of 8)          |
| - Side Impact Test <sup>#</sup>  | 8.00 (out of 8)          |
| - Pole Test <sup>#</sup>         | 7.50 (out of 8)          |
| - Whiplash Protection Test       | 1.67 (out of 3)          |
| - AEB (City)                     | 3.00 (out of 3)          |
| <b>Child Occupant Protection</b> | 64% (31.56 out of 49)    |
| <b>Safety Assist</b>             | 47% (5.70 out of 12)     |
| - Speed Assistance System        | 0.00 (out of 3)          |
| - Seat Belt Reminders            | 3.00 (out of 3)          |
| - Lane Support System            | 0.00 (out of 3)          |
| - AEB (Interurban)               | 2.70 (out of 3)          |
| <b>Pedestrian Protection</b>     | 54% (22.79 out of 42)    |
| <b>ANCAP Safety Rating</b>       | ★★★★★                    |
| <b>Rating Year<sup>^</sup></b>   | 2017                     |

<sup>#</sup> Scaled scores. Total test score out of 16.00 points.

## Adult Occupant Protection.

### Full Width Frontal Test

Each body region is scored out of 4 points

#### Driver

|             |             |
|-------------|-------------|
| Head:       | 4.00 points |
| Neck:       | 4.00 points |
| Chest:      | 3.89 points |
| Upper legs: | 4.00 points |

#### Rear Passenger

|             |             |
|-------------|-------------|
| Head:       | 0.82 points |
| Neck:       | 3.17 points |
| Chest:      | 2.29 points |
| Upper legs: | 4.00 points |

In the full width frontal test, dummy readings indicated marginal protection of the rear passenger's head and chest, while driver chest protection was rated as acceptable. Protection of the driver was rated good or adequate.

### Frontal Offset Test

Each body region is scored out of 4 points

#### Driver / Front Passenger (lesser of each)

|              |             |
|--------------|-------------|
| Head / neck: | 4.00 points |
| Chest:       | 1.63 points |
| Upper legs:  | 4.00 points |
| Lower legs:  | 3.51 points |

The passenger compartment remained stable in the frontal offset test. Dummy readings indicated good protection of the knees and femurs of the driver and passenger. Protection of the driver's chest was rated marginal.

### Side Impact Test

### Pole Test

Each body region is scored out of 4 points

|          |             |          |             |
|----------|-------------|----------|-------------|
| Head:    | 4.00 points | Head:    | 4.00 points |
| Chest:   | 4.00 points | Chest:   | 4.00 points |
| Abdomen: | 4.00 points | Abdomen: | 4.00 points |
| Pelvis:  | 4.00 points | Pelvis:  | 4.00 points |

In the side impact test, the Picanto scored maximum points with good protection for all critical body regions. In the more severe side pole impact, protection of the driver was good however a door opened during the test and was penalised.

### Whiplash Protection

|               |             |
|---------------|-------------|
| Front / Rear: | 1.30 points |
| Rear:         | 0.38 points |
| AEB (City):   | 3.00 points |

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## Child Occupant Protection.

### Crash Test Performance

|                    |              |
|--------------------|--------------|
| 6 year old child:  | 10.78 points |
| 10 year old child: | 4.53 points  |

In the frontal offset test, dummy readings of neck tension indicated weak protection of this part of the body for the 10 year child dummy. Chest protection for the 6 year child dummy was rated as marginal. In the side impact test, protection of the 6 year dummy was good, while protection of the chest was poor for the 10 year old dummy and the head made contact with the vehicle interior.

### Child Safety Features & Child Seat Installation

|                     |              |
|---------------------|--------------|
| Safety features:    | 5.00 points  |
| Installation check: | 11.25 points |

**NOTE:** The child restraints tested by Euro NCAP are relevant to the European market. For Australasian consumers, this information should be used as a guide to vehicle features only. For more detailed information about Australian child restraints visit [childcarseats.com.au](http://childcarseats.com.au).

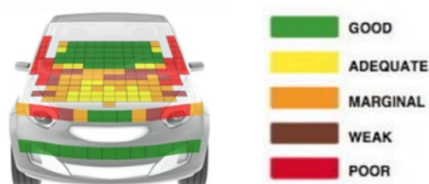
## Pedestrian Protection.

### Pedestrian Test

Scored out of 42 points

|                             |              |
|-----------------------------|--------------|
| Adult & child head impacts: | 13.82 points |
| Upper leg impacts:          | 2.97 points  |
| Lower leg impacts:          | 6.00 points  |
| AEB (VRU):                  | 0.00 points  |

This vehicle scored 22.79 out of 42 points. Protection of the head of a struck pedestrian was predominantly marginal or weak over the bonnet surface, with poor results recorded on the stiff windscreen pillars. The bumper provided good protection to pedestrians' legs but protection of the pelvis was mixed, with good and poor test results. The autonomous emergency braking (AEB) system available on the Picanto is not designed to react to pedestrians. (Tested by Euro NCAP v8.3)



## Score Deductions.

### Deductions from full width frontal test scores

|                      |               |
|----------------------|---------------|
| Neck:                | No deductions |
| Head:                | No deductions |
| Chest:               | No deductions |
| Upper legs / pelvis: | No deductions |
| Overall:             | No deductions |

### Deductions from frontal offset test scores

|              |               |
|--------------|---------------|
| Head / neck: | No deductions |
| Chest:       | No deductions |
| Upper legs:  | No deductions |
| Lower legs:  | No deductions |
| Overall:     | No deductions |

### Deductions from side impact test score

No deductions

### Deductions from pole test score

|              |                           |
|--------------|---------------------------|
| Head / neck: | No deductions             |
| Chest:       | No deductions             |
| Abdomen:     | No deductions             |
| Pelvis:      | No deductions             |
| Overall:     | -1.00 point (door opened) |

## Safety Features & Technologies.

Descriptions of each of these safety features and safety assist technologies (SAT) and detail on fitting requirements for each star rating level can be found at [ancap.com.au](http://ancap.com.au).

| Safety Feature / Safety Assist Technology                       | Availability      |              |     |
|-----------------------------------------------------------------|-------------------|--------------|-----|
|                                                                 | MY2017-<br>MY2019 | MY2020<br>AU | NZ  |
| Seat belts (three-point, lap/sash) for all forward-facing seats | S                 | S            | S   |
| Seat belt pretensioners (front)                                 | S                 | S            | S   |
| Seat belt pretensioners (rear outboard)                         | S                 | S            | S   |
| Intelligent seat belt reminder (driver)                         | S                 | S            | S   |
| Intelligent seat belt reminder (front passenger)                | S                 | S            | S   |
| Intelligent seat belt reminder (2 <sup>nd</sup> row seats)      | S                 | S            | S   |
| Intelligent seat belt reminder (3 <sup>rd</sup> row seats)      | N/A               | N/A          | N/A |
| Airbag - Frontal (driver)                                       | S                 | S            | S   |
| Airbag - Frontal (passenger)                                    | S                 | S            | S   |
| Airbag - Side, chest protection (front seats)                   | S                 | S            | S   |
| Airbag - Side, chest protection (2 <sup>nd</sup> row seats)     | X                 | X            | X   |
| Airbag - Side, head protection (front seats)                    | S                 | S            | S   |
| Airbag - Side, head protection (2 <sup>nd</sup> row seats)      | S                 | S            | S   |
| Airbag - Side, head protection (3 <sup>rd</sup> row seats)      | N/A               | N/A          | N/A |
| Airbag - Knee (driver)                                          | X                 | X            | X   |
| Airbag - Knee (front passenger)                                 | X                 | X            | X   |
| Head restraints for all seats                                   | S                 | S            | S   |
| Adaptive cruise control (ACC)                                   | X                 | X            | X   |
| Antilock braking system (ABS)                                   | S                 | S            | S   |
| Autonomous emergency braking (AEB)                              |                   |              |     |
| - City                                                          | S                 | S            | S   |
| - Interurban                                                    | S                 | S            | S   |
| - Vulnerable road user                                          | X                 | X            | V   |
| Automatic headlights                                            | S                 | S            | S   |
| Automatic high beam                                             | X                 | X            | X   |
| Blind spot monitoring (BSM)                                     | X                 | X            | V   |
| Electronic brakeforce distribution (EBD)                        | S                 | S            | S   |
| Electronic stability control (ESC)                              | S                 | S            | S   |
| Emergency brake assist (EBA)                                    | S                 | S            | S   |
| Fatigue reminder                                                | S                 | X            | V   |
| Forward collision warning (FCW)                                 | X                 | S            | S   |
| Lane support system (LSS)                                       | X                 | X            | V   |
| Daytime running lights (DRL)                                    | S                 | S            | S   |
| Hill launch assist                                              | S                 | S            | S   |
| Reversing collision avoidance                                   | S                 | S            | S   |
| Speed assistance – automatic / intelligent speed limiting (ISA) | X                 | X            | X   |
| Speed assistance - manual speed limiting                        | S                 | S            | S   |
| Speed assistance - speed sign recognition & warning             | X                 | X            | X   |
| Tyre pressure monitoring system (TPMS)                          | X                 | X            | X   |

**S** = Standard on all variants.

**O** = Optional on base variant. May be standard on higher variants.

**V** = Not available on base variant but standard or optional on higher variants.

**X** = Not available on any variant.

**E** = Available in Europe but not available on any Australasian variant.

These specifications are subject to change. Please check with the manufacturer for the latest specifications.



### Safety Assist.

#### Speed Assistance System (SAS)

Scored 0.0 out of 3 points

|                                             |                |
|---------------------------------------------|----------------|
| Speed information:                          | 0.00           |
| Speed assistance (manual):                  | [Not assessed] |
| Speed assistance (automatic / intelligent): | 0.00           |

#### AEB (Interurban)

Scored 2.70 out of 3 points

|                                     |                 |
|-------------------------------------|-----------------|
| Autonomous emergency braking (AEB): | 1.50 out of 1.5 |
| Forward collision warning (FCW):    | 0.95 out of 1.0 |
| Human machine interface (HMI):      | 0.25 out of 0.5 |

#### Seat Belt Reminder (SBR)

Scored 3.0 out of 3 points

|                       |                  |
|-----------------------|------------------|
| Driver and passenger: | 2.00 out of 2.00 |
| Rear:                 | 1.00 out of 1.00 |

#### Lane Support Systems (LSS)

Scored 0.0 out of 3 points

[Not available]

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An autonomous emergency braking (AEB) system became standard on New Zealand models built from May 2017 and Australian models built from June 2017. Testing of this system showed good performance at highway speeds with collisions avoided or mitigated in most test scenarios. A driver-set speed limiter was also introduced at this time, however the system was not tested. A lane support system (LSS) is not available.

#### Approaching a stationary vehicle:

15.04 out of 18.00 points for Forward Collision Warning (FCW)



#### Approaching a slow moving vehicle:

11.00 out of 11.00 points for Autonomous Emergency Braking (AEB)



#### Approaching a braking vehicle with short headway:

2.00 out of 2.00 points for AEB, 2.00 out of 2.00 points for FCW



#### Approaching a braking vehicle with long headway:

2.00 out of 2.00 points for AEB, 2.00 out of 2.00 points for FCW



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### Injury Values & Measurements.

| Body Region                   | Frontal offset test<br>at 64km/h<br>(v7.1) |                 | Full width frontal test<br>at 50km/h<br>(v1) |                | Side impact test<br>at 50km/h<br>(v7.1) | Oblique pole test<br>at 32km/h<br>(v7.0) |
|-------------------------------|--------------------------------------------|-----------------|----------------------------------------------|----------------|-----------------------------------------|------------------------------------------|
|                               | Driver                                     | Front Passenger | Driver                                       | Rear Passenger | Driver                                  | Driver                                   |
| <b>Head</b>                   |                                            |                 |                                              |                |                                         |                                          |
| HIC                           | 342                                        | 239             | 365                                          | 614            | 104                                     | 151                                      |
| Acceleration (g for 3ms)      | 59.20                                      | 50.20           | 61.66                                        | 78.36          | 38.20                                   | 42.11                                    |
| <b>Neck</b>                   |                                            |                 |                                              |                |                                         |                                          |
| Shear (kN)                    | 0.50                                       | 0.46            | 0.29                                         | 1.29           | -                                       | -                                        |
| Tension (kN)                  | 1.70                                       | 1.13            | 1.59                                         | 2.35           | -                                       | -                                        |
| Extension (Nm)                | 19.50                                      | 7.90            | 19.91                                        | 11.58          | -                                       | -                                        |
| <b>Chest</b>                  |                                            |                 |                                              |                |                                         |                                          |
| Acceleration (g for 3ms)      | -                                          | -               | -                                            | -              | -                                       | -                                        |
| Compression (mm)              | 33.86                                      | 26.88           | 18.69                                        | 28.25          | 16.71                                   | 24.44                                    |
| Viscous criterion (m/s)       | 0.24                                       | 0.13            | 0.10                                         | 0.17           | 0.79                                    | 0.25                                     |
| <b>Abdomen</b>                |                                            |                 |                                              |                |                                         |                                          |
| Compression (mm)              | -                                          | -               | -                                            | -              | 13.65                                   | 31.68                                    |
| <b>Pelvis</b>                 |                                            |                 |                                              |                |                                         |                                          |
| Force (kN)                    | -                                          | -               | -                                            | -              | 1.06                                    | -                                        |
| <b>Upper legs</b>             |                                            |                 |                                              |                |                                         |                                          |
| Femur force left (kN)         | 0.40                                       | 1.89            | 0.09                                         | 0.19           | -                                       | -                                        |
| Femur force right (kN)        | 0.45                                       | 0.15            | 0.01                                         | 0.00           | -                                       | -                                        |
| Knee displacement left (mm)   | 0.00                                       | 1.19            | 0.00                                         | 0.00           | -                                       | -                                        |
| Knee displacement right (mm)  | 0.01                                       | 0.06            | 0.00                                         | 0.00           | -                                       | -                                        |
| <b>Lower legs</b>             |                                            |                 |                                              |                |                                         |                                          |
| Force left (kN)               | 1.59                                       | 2.10            | -                                            | -              | -                                       | -                                        |
| Force right (kN)              | 2.72                                       | 1.37            | -                                            | -              | -                                       | -                                        |
| Index (upper / lower) left    | 0.51 / 0.27                                | 0.31 / 0.18     | -                                            | -              | -                                       | -                                        |
| Index (upper / lower) right   | 0.31 / 0.40                                | 0.34 / 0.17     | -                                            | -              | -                                       | -                                        |
| <b>Intrusion Measurements</b> |                                            |                 |                                              |                |                                         |                                          |
| <b>Steering column</b>        |                                            |                 |                                              |                |                                         |                                          |
| Forward (mm)                  | 43                                         | -               | 59                                           | -              | -                                       | -                                        |
| Upward (mm)                   | -27                                        | -               | -34                                          | -              | -                                       | -                                        |
| Sideways (mm)                 | 2                                          | -               | 0                                            | -              | -                                       | -                                        |
| <b>Pedals</b>                 |                                            |                 |                                              |                |                                         |                                          |
| Brake - rearward (mm)         | 37                                         | -               | -                                            | -              | -                                       | -                                        |
| Accelerator - upward (mm)     | 37                                         | -               | -                                            | -              | -                                       | -                                        |
| <b>A-Pillar</b>               |                                            |                 |                                              |                |                                         |                                          |
| Rearward (mm)                 | 15                                         | -               | -                                            | -              | -                                       | -                                        |

\* **Model Variants:** ANCAP safety ratings do not automatically extend to variants that have different body styles, engine configurations, driven wheels or occupant restraint systems (e.g. fewer airbags). In these cases, ANCAP considers technical evidence submitted by manufacturers before deciding on extending a rating to additional variants of a model. For further information about the application of ANCAP safety ratings to model variants, see the ANCAP Variant Policy.

^ **Rating Year:** The Rating Year denotes the year requirements against which a vehicle has been assessed. The Rating Year is determined by ANCAP and may be based on the year in which a new vehicle model is first launched into the Australian and/or New Zealand markets; the year in which the vehicle was tested (if tested by Euro NCAP); or, for vehicles which hold an existing ANCAP safety rating, the year in which the rating was updated (or earlier applicable year).

### Assessment Details.

|                            |                  |
|----------------------------|------------------|
| Tested Make / Model        | Kia Picanto      |
| Tested Vehicle(s) Built    | 2017             |
| Tested Body Type           | 5 door hatch     |
| Tested Vehicle Kerb Weight | 899 kg           |
| Tested Vehicle Engine      | 1.0 litre petrol |
| Tested By                  | Euro NCAP        |
| Assessed By                | Euro NCAP        |
| Document Reference         | PicantoJun17     |
| Document Created / Revised | 6 September 2017 |
| Rating Published           | September 2017   |
| Rating Updated             | September 2020   |



Frontal offset test at 64km/h