

# ANCAP Safety Rating TOYOTA AVENSIS (November 2016 - onwards)



Toyota Avensis

## This ANCAP safety rating applies to:

<b>Make / Model</b>	Toyota Avensis
<b>Year Range</b>	November 2016 - onwards
<b>Variant(s)*</b>	All variants
<b>Vehicle Type</b>	Large car

The tested model of Toyota Avensis was introduced in New Zealand in 2015. It is not sold in Australia. This ANCAP safety rating is based on tests conducted by Euro NCAP and applies to all New Zealand variants built from November 2016 when production changes were introduced.

Dual frontal, side chest and side head airbags (curtains) and a driver knee airbag are standard. Advanced seat belt reminders are fitted to all seats. Autonomous emergency braking (City & Interurban) and lane support systems are available as 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, Knee
<b>Adult Occupant Protection</b>	93% (35.39 out of 38)
- Full Width Frontal Test	7.64 (out of 8)
- Frontal Offset Test	6.45 (out of 8)
- Side Impact Test <sup>#</sup>	8.00 (out of 8)
- Pole Test <sup>#</sup>	8.00 (out of 8)
- Whiplash Protection Test	2.40 (out of 3)
- AEB (City)	2.90 (out of 3)
<b>Child Occupant Protection</b>	85% (42.01 out of 49)
<b>Safety Assist</b>	81% (10.63 out of 13)
- Speed Assistance System	1.33 (out of 3)
- ESC	3.00 (out of 3)
- Seat Belt Reminders	3.00 (out of 3)
- Lane Support System	1.00 (out of 1)
- AEB (Interurban)	2.30 (out of 3)
<b>Pedestrian Protection</b>	78% (28.20 out of 36)
<b>ANCAP Safety Rating</b>	★★★★★
<b>Rating Year<sup>^</sup></b>	2015

<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		Rear Passenger	
Head:	4.00 points	Head:	4.00 points
Neck:	4.00 points	Neck:	4.00 points
Chest:	4.00 points	Chest:	2.55 points
Upper legs:	4.00 points	Upper legs:	4.00 points

Chest protection was marginal for the rear passenger in this test.

### Frontal Offset Test

Each body region is scored out of 4 points

Driver / Front Passenger (lesser of each)	
Head / neck:	4.00 points
Chest:	3.60 points
Upper legs:	1.72 points
Lower legs:	3.57 points

The passenger compartment held its shape well in the frontal offset test. Pedal and steering wheel displacements were well controlled. Driver and passenger contact with the airbags was stable but there was considerable twisting of the driver's neck. Deductions were applied to driver and passenger upper leg scores due to hazardous components and it was judged that the knee airbag did not provide sufficient protection.

### 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

Good protection was provided for the driver in the side impact and pole tests.

### Whiplash Protection

Front / Rear:	1.65 points
Rear:	0.75 points
AEB (City):	2.90 points

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## Child Occupant Protection.

### Crash Test Performance

6 year old child: 12.00 points  
10 year old child: 11.33 points

### Child Safety Features & Child Seat Installation

Safety features: 7.00 points  
Installation check: 11.69 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).

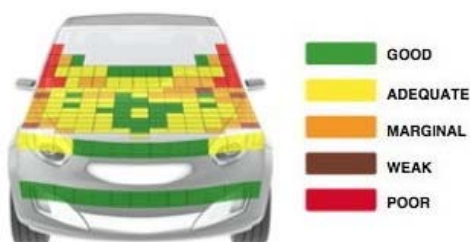
## Pedestrian Protection.

### Pedestrian Test

Scored out of 36 points

Adult & child head impacts: 16.55 points  
Upper leg impacts: 5.65 points  
Lower leg impacts: 6.00 points

This vehicle scored 28.20 out of 36 points (Good). The bumper scored maximum points, providing good protection to pedestrians' legs in all areas tested. The Avensis provided protection to the pelvic region that was at least adequate. The bonnet was predominantly adequate with some good areas, and poor results being recorded only on the stiff windscreen pillars. (Tested by Euro NCAP v8)



## Score Deductions.

### Deductions from full width frontal test scores

Neck: No deductions  
Head: No deductions  
Chest: No deductions  
Upper legs: No deductions

### Deductions from frontal offset test scores

Head / neck: No deductions  
Chest: No deductions  
Upper legs: -2.00 pts (knee hazards for driver, both legs)  
-2.00 pts (knee hazards for passenger, both legs)  
Lower legs: -0.037 pts from foot score (blocked brake pedal, 55mm)

### Deductions from side impact test score

All body regions: No deductions

### Deductions from pole test score

All body regions: No deductions

## Safety Features & Technologies.

(Applies to vehicles built from November 2016)

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
Seat belts (three-point, lap/sash) for all forward-facing seats	S
Seat belt pretensioners (front)	S
Seat belt pretensioners (rear outboard)	S
Intelligent seat belt reminder (driver)	S
Intelligent seat belt reminder (front passenger)	S
Intelligent seat belt reminder (2 <sup>nd</sup> row seats)	S
Airbag - Frontal (driver)	S
Airbag - Frontal (passenger)	S
Airbag - Side, chest protection (front seats)	S
Airbag - Side, chest protection (2 <sup>nd</sup> row seats)	X
Airbag - Side, head protection (front seats)	S
Airbag - Side, head protection (2 <sup>nd</sup> row seats)	S
Airbag - Knee (driver)	S
Airbag - Knee (front passenger)	X
Head restraints for all seats	S
Adaptive cruise control (ACC)	S
Antilock braking system (ABS)	S
Autonomous emergency braking (AEB)	
- City	S
- Interurban	S
- Vulnerable road user	X
Automatic headlights	S
Automatic high beam	S
Blind spot monitoring (BSM)	S
Daytime running lights (DRL)	S
Electronic brakeforce distribution (EBD)	S
Electronic stability control (ESC)	S
Emergency brake assist (EBA)	S
Hill launch assist	S
Lane support system (LSS)	S
Pre-crash systems	S
Reversing collision avoidance	S
Speed assistance – automatic / intelligent speed limiting (ISA)	X
Speed assistance - manual speed limiting	S
Speed assistance - speed sign recognition & warning	X
Tyre pressure monitoring system (TPMS)	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 / USA 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 1.33 out of 3 points

Speed information: Not available  
 Speed assistance (manual): Pass  
 Speed assistance (automatic / intelligent): Not available

**Electronic Stability Control (ESC)**

Scored 3.00 out of 3 points

**AEB (Interurban)**

Scored 2.30 out of 3 points

Autonomous emergency braking (AEB): 1.16 out of 1.5  
 Forward collision warning (FCW): 0.89 out of 1.0  
 Human machine interface (HMI): 0.25 out of 0.5

**Seat Belt Reminder (SBR)**

Scored 3.00 out of 3 points

Driver and passenger: Pass  
 Rear: Pass

**Lane Support Systems (LSS)**

Scored 1.00 out of 1 point

Lane departure warning: Pass

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Manual speed assistance and lane departure warning are optional on European variants but standard on New Zealand variants. Autonomous emergency braking is standard and its performance at speeds typical of highway driving was rated as good.

**Approaching a stationary vehicle:**

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



**Approaching a slow moving vehicle:**

10.05 out of 11.00 points for Autonomous Emergency Braking (AEB), 11.00 out of 11.00 points for FCW



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

1.26 out of 2.00 points for AEB, 1.26 out of 2.00 points for FCW



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

1.26 out of 2.00 points for AEB, 1.83 out of 2.00 points for FCW



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## Injury Values & Measurements.

Body Region	Frontal offset test at 64km/h (v7)		Full width frontal test at 50km/h (v1)		Side impact test at 50km/h (v7)	Oblique pole test at 32km/h (v7)
	Driver	Front Passenger	Driver	Rear Passenger	Driver	Driver
<b>Head</b>						
HIC	289.00	184.00	209.00	178.00	58.00	416.87
Acceleration (g for 3ms)	54.80	45.90	48.30	43.80	28.00	64.80
<b>Neck</b>						
Shear (kN)	0.64	0.39	0.24	0.76	-	-
Tension (kN)	1.60	0.86	1.24	1.39	-	-
Extension (Nm)	22.10	20.80	19.20	14.50	-	-
<b>Chest</b>						
Acceleration (g for 3ms)	-	-	-	-	-	-
Compression (mm)	23.99	21.31	17.44	26.72	11.54	19.66
Viscous criterion (m/s)	0.09	0.05	0.08	0.13	0.11	0.17
<b>Abdomen</b>						
Compression (mm)	-	-	-	-	9.56	27.97
<b>Pelvis</b>						
Force (kN)	-	-	-	-	0.56	-
<b>Upper legs</b>						
Femur force left (kN)	1.08	0.70	1.96	0.09	-	-
Femur force right (kN)	1.88	0.26	2.18	0.16	-	-
Knee displacement left (mm)	2.38	3.98	3.28	-	-	-
Knee displacement right (mm)	6.63	0.23	4.10	-	-	-
<b>Lower legs</b>						
Force left (kN)	1.87	1.98	-	-	-	-
Force right (kN)	2.65	1.47	-	-	-	-
Index (upper / lower) left	0.33 / 0.42	0.31 / 0.24	-	-	-	-
Index (upper / lower) right	0.37 / 0.21	0.23 / 0.16	-	-	-	-
<b>Intrusion Measurements</b>						
<b>Steering column</b>						
Forward (mm)	5	-	-	-	-	-
Downward (mm)	6	-	-	-	-	-
Sideways (mm)	7	-	-	-	-	-
<b>Pedals</b>						
Brake - rearward/blocked (mm)	62/55	-	-	-	-	-
Clutch - upward (mm)	4	-	-	-	-	-
<b>A-Pillar</b>						
Rearward (mm)	34	-	-	-	-	-

\* **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	Toyota Avensis Touring Sports LHD
Tested Vehicle(s) Built	2015
Tested Body Type	Wagon
Tested Vehicle Kerb Weight	1550 kg
Tested Vehicle Engine	1.6 litre diesel
Tested By	Euro NCAP
Assessed By	Euro NCAP
Document Reference	AVENSIS15
Document Created / Revised	11 January 2017
Rating Published	January 2017
Rating Updated	n/a



Frontal offset test at 64km/h