

# Crash Tests

## New Car Safety

### TOYOTA YARIS (LHD)

2005 on

Front+side & head airbags

#### Occupant Protection



**Occupant Protection Score 34.95 out of 37**

Variant: 5dr YR with safety pack

Eng: 1 litre

Kerb weight: 1020 kg

Category: SMALL CAR

Vehicles built: 2005

Test by Euro NCAP

**Important note:** The *left-hand-drive* European model with *side curtains* was tested by Euro NCAP. Australasian specifications may vary and therefore models sold in Australasia might provide different levels of protection to those described on this page. The tested vehicle had airbags that come with an optional safety pack in Australia.

#### Model History and Safety Features

The tested model of Toyota Yaris was introduced in Australia during 2005.

Dual front airbags and ABS/EBD brakes are standard. Side airbags, head-protecting side curtains and a knee airbag for the driver are available in a safety pack that is recommended by ANCAP. *The tested vehicle had these extra airbags.* A separate ANCAP report is available for a Yaris without the extra airbags. Advanced seat belt reminders are fitted to both front seats.

The front seat belt buckles are mounted on the seats and the upper anchorages are adjustable. These features improve the fit of the seat belt. Pre-tensioners are fitted to the front seat belts to reduce slack in the event of a crash. A three point seat belt is fitted to the centre rear seat. This provides better protection than a two point seat belt.

#### OCCUPANT PROTECTION: 5 Stars

The Toyota Yaris scored 15.2 out of 16 in the offset crash test. The passenger compartment held its shape well. There was a slight risk of serious chest injury for the driver and passenger.

The vehicle scored 15.75 out of 16 in the side impact crash test. There was a slight risk of serious chest injury for the driver. A further 2 points were scored in the optional pole test

#### FRONTAL OFFSET CRASH TEST

*Body region scores out of 4 points each:* Head/neck 4 pts, chest 3.2 pts, upper legs 4 pts, lower legs 4 pts.

The passenger compartment held its shape well in the offset crash test. The brake pedal moved rearwards by 70 mm and upwards 12 mm. The steering wheel hub moved forwards 18mm, upwards 41 mm and sideways 2 mm. The front ("A") pillar moved 25 mm rearwards. All doors remained closed during the crash.

Airbags cushioned the head of the driver and passenger and each contact was stable.

#### SIDE IMPACT CRASH TEST

*Body region scores out of 4 points each:* Head 4 pts, chest 3.75 pts, abdomen 4 pts, pelvis 4 pts.

The vehicle was eligible for an optional pole impact test, since it had head-protecting side airbags and scored four points for the head in the side impact test. The manufacturer decided to go ahead with the pole test and the vehicle earned a further two points.



Offset crash test at 64km/h

#### INJURY MEASUREMENTS

Refer to the information sheet "How the test are done"	Offset Crash Test at 64km/h (v4.1)		Side Impact Crash Test at 50km/h (v4.1)
	Driver	Passn	Driver
Head HIC	602	262	54
Acceleration (g for 3ms)	57.9	42.8	21.5
Neck - Shear (kN)	0.33	0.68	-
Tension (kN)	1.96	1.16	-
Extension (Nm)	22.0	31.0	-
Chest Accln (g for 3ms)			-
Compression (mm)	27.59	26.48	23.27
Viscous criterion (m/s)	0.11	0.11	0.13
Abdomen - Force (kN)	-	-	0.720
Pelvis - Force (kN)	-	-	2.410
Upper legs Force (kN)	Left 1.83 Right 2.17	1.84 0.09	
Knee displ (mm)	Left 1.76 Right 4.73	4.76 0.00	
Lower legs Force (kN)	Left 1.71 Right 1.61	1.83 1.84	
Index (Upper/Low)	Left 0.33 / 0.33 Right 0.23 / 0.20	0.33 / 0.28 .38 / .2	

#### Bonus points (maximum 5)

Pole Test: 2 pts Seat belt reminders: 2

#### Modifiers - offset test scores

Head No deduction  
Chest No deduction  
Upper leg No deduction  
Lower leg No deduction  
Foot score Score 4 points

#### Modifiers - side impact test scores

Chest No deduction

#### PEDESTRIAN PROTECTION RATING (v4.1)

Child head impacts	5.08	Upper leg impacts	2.9
Adult head impacts	4.13	Lower leg impacts	5.52
Total (out of 36)	17.63		



**ANCAP**

Crash testing for safety

AUSTRALASIAN  
NEW CAR ASSESSMENT  
PROGRAM

June 2006

PO Box 1555  
Canberra ACT  
Australia 2601

yaris05C.doc revised 14/6/06