

# Crash Test Results

## New Car Safety

### OPEL ASTRA

2012-2014

Front+side+head airbags



Offset crash test at 64km/h (Euro NCAP)



**ANCAP**  
Safety ★★★★★

**Safety Rating**

**Occupant Protection Score 35.02 out of 37**

Tested variant: 1.6 Enjoy Eng: 1.6 petrol turbo  
Kerb mass 1320 kg Category: CAR - MEDIUM  
Vehicles built: 2009 Tested by Euro NCAP

**Important note:** The petrol left-hand-drive European model 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.

#### Model History and Safety Features

The tested model of Opel Astra was introduced in Australia during 2012. This ANCAP rating applies to all Astra 5-door hatch and wagon variants and all engines.

Dual front airbags, side airbags and head-protecting side curtains are standard equipment. Antilock brakes (ABS), electronic brakeforce distribution (EBD) and electronic stability control (ESC) are also standard. Intelligent seat belt reminders are fitted to both front seats.

#### OCCUPANT PROTECTION: 5 Stars

The Astra scored 15.06 out of 16 in the offset crash test. The passenger compartment held its shape well. There was a slight risk of serious chest and leg injury for the driver.

The vehicle scored 15.96 out of 16 in the side impact crash test. There was a slight risk of serious chest and abdomen injury for the driver. A further two points were scored in the pole test.

#### FRONTAL OFFSET CRASH TEST

Body region scores out of 4 points each: Head/neck 4 pts, chest 3.87 pts, upper legs 4 pts, lower legs 3.19 pts.

The passenger compartment held its shape well in the offset crash test. The clutch pedal moved forwards by 2mm and upwards 3 mm. The steering wheel hub moved 55mm forward, 20mm downward and 2 mm sideways. The front ("A") pillar moved 2 mm rearwards. All doors remained closed during the crash. After the crash all doors could be opened with normal effort.

The airbag cushioned the head of the driver and contact was stable. There were no knee hazards. The passenger's head was cushioned by the airbag.

#### SIDE IMPACT CRASH TEST

Body region scores out of 4 points each: Head 4 pts, chest 3.96 pts, abdomen 4 pts, pelvis 4 pts.

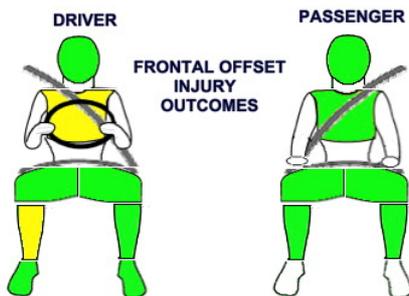
The vehicle was eligible for a pole impact test, since it had head-protecting side airbags. The vehicle earned the maximum two points in this test.

#### PEDESTRIAN PROTECTION: MARGINAL

The car scored maximum points for the protection offered to pedestrians' legs by the bumper. However, the protection provided by the front edge of the bonnet was poor. In most areas likely to be struck by the head of a child, the bonnet offered marginal protection. In all areas likely to be struck by an adult's head, the bonnet provided poor protection.

PEDESTRIAN PROTECTION	Child head impacts	10.43
<b>MARGINAL</b>	Adult head impacts	Zero
	Upper leg impacts	Zero
	Lower leg impacts	6
	Total (out of 36)	16.43

Tested by Euro NCAP v5.1



#### Whiplash Protection (RCAR Protocol)



Legend for Pedestrian Protection:  
■ PASS  
■ MARGINAL  
■ FAIL

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astra12.doc  
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Crash testing for safety

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# TECHNICAL DATA - OPEL ASTRA - From 2012

## INJURY MEASUREMENTS

Body region	Offset Crash Test at 64km/h (v5.1)		Side Impact Crash Test at 50km/h (v5.1)
	Driver	Passenger	Driver
<b>Head HIC</b>	311	312	59
Acceleration (g for 3ms)	40.3	48.5	25.5
<b>Neck - Shear (kN)</b>	0.85	0.42	-
Tension (kN)	0.62	0.78	-
Extension (Nm)	5.3	17.1	-
<b>Chest Accln (g for 3ms)</b>	-	-	-
Compression (mm)	22.93	20.87	22.20
Viscous criterion (m/s)	0.09	0.06	0.18
<b>Abdomen - Force (kN)</b>	-	-	0.460
<b>Pelvis - Force (kN)</b>	-	-	1.450
<b>Upper legs Force (kN)</b>			
Left	0.15	0.20	
Right	0.55	0.20	
Knee displ (mm)			
Left	0.00	0.00	
Right	0.20	0.00	
<b>Lower legs Force (kN)</b>			
Left	1.30	1.74	
Right	3.21	1.25	
Index (Upper/Low)			
Left	0.25 /0.25	0.25 /0.22	
Right	0.26 /0.29	0.28/0.14	

### Bonus points (maximum 5)

Pole Test: 2 pts

Seat belt reminders: 2 (see table below for details)

### Modifiers - deductions from offset test scores

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

### Modifiers - deductions from side impact test scores

Chest	No deduction
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### Safety features

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



Driver airbag	S	Antilock (ABS) brakes / Electronic brake distribution / Brake Assist	S/S/S
Passenger front airbag	S	Electronic stability control (ESC, VSC, DSC, ESP, VSA)	S#
Side airbags, front seats - chest protection	S	3 point seat belt for all forward-facing seats	S
Side airbags, front seats - head protection	S	Whiplash protection (RCAR protocol)	Good
Side airbags, rear seats - head protection		Intelligent seat belt reminder - driver	S
Driver knee airbag	X	Intelligent seat belt reminder - front passenger	S
Seat belt pretensioners (Front/Rear outboard)	S/X	Intelligent seat belt reminder - rear seats	X

Key:

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

# ESC required by ANCAP for 5 star rating from 2008



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