

Crash Test Results

New Car Safety

OPEL INSIGNIA

From 2012 Front+side+head airbags



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



ANCAP

Safety ★★★★★

Safety Rating

Occupant Protection Score 35.16 out of 37

Tested variant: Essentia LHD Eng: 2.0 diesel

Kerb mass 1540 kg Category: CAR - LARGE

Vehicles built: 2009 Tested by Euro NCAP

Important note: The *diesel 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

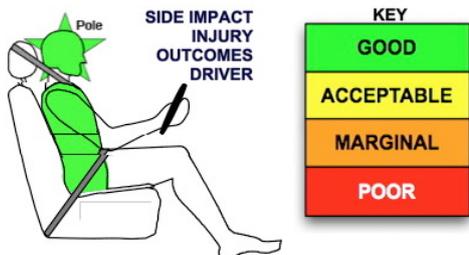
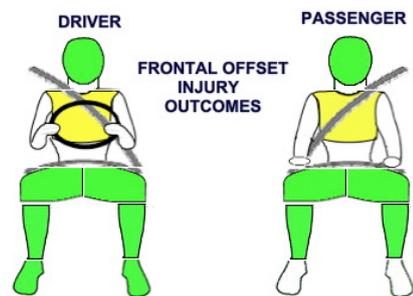
The tested model of Opel Insignia was introduced in Australia during 2012. Euro NCAP has indicated that the results apply to all Insignia variants.

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.

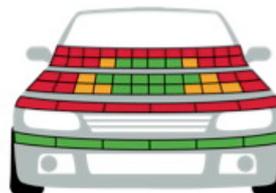
OCCUPANT PROTECTION 5 stars

The Insignia scored 15.16 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 16 out of 16 in the side impact crash test and a further two points in the pole test.



Whiplash Protection (RCAR Protocol)



Legend for Whiplash Protection:
Green: PASS
Yellow: MARGINAL
Red: FAIL

FRONTAL OFFSET CRASH TEST

Body region scores out of 4 points each: Head/neck 4 pts, chest 3.16 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 93 mm and upwards 26 mm. The steering wheel hub moved 32mm forward, 6mm downward and 2 mm sideways. The front ("A") pillar moved 4 mm rearwards. All doors remained closed during the crash. After the crash the driver's door could be opened with high manual effort.

The airbag cushioned the head of the driver and contact was stable. Steering column components were a potential source of injury for the driver's knees. The passenger's head was cushioned by the airbag. The passenger's knees hit the glove box and dash.

SIDE IMPACT CRASH TEST

Body region scores out of 4 points each: Head 4 pts, chest 4 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 bumper scored maximum points for protection of pedestrians' legs. However, the bonnet was rated as predominantly poor for the protection it offered the head of a struck adult. The front of the bonnet scored zero points for adult upper leg protection.

PEDESTRIAN PROTECTION	Child head impacts	5.62
MARGINAL	Adult head impacts	2.66
	Upper leg impacts	Zero
	Lower leg impacts	6
	Total (out of 36)	14.28

Tested by Euro NCAP v5.1

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AUSTRALASIAN
NEW CAR ASSESSMENT
PROGRAM

www.ancap.com.au

TECHNICAL DATA - OPEL INSIGNIA - 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
Head HIC	342	281	50
Acceleration (g for 3ms)	47.2	40.7	25.9
Neck - Shear (kN)	0.52	0.35	-
Tension (kN)	1.15	0.60	-
Extension (Nm)	7.7	15.2	-
Chest Accln (g for 3ms)	-	-	-
Compression (mm)	27.89	27.21	12.53
Viscous criterion (m/s)	0.13	0.11	0.05
Abdomen - Force (kN)	-	-	0.340
Pelvis - Force (kN)	-	-	1.420
Upper legs Force (kN)	Left	0.00	0.00
	Right	0.00	0.00
Knee displ (mm)	Left	0.00	0.00
	Right	0.00	0.00
Lower legs Force (kN)	Left	1.31	1.92
	Right	1.51	1.28
Index (Upper/Low)	Left	0.25 /0.17	0.38 /0.23
	Right	0.23 /0.18	0.32/0.22

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	S	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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