

Crash Test Results

New Car Safety

HYUNDAI i30

From June 2012 Front+side+head+knee airbags



Offset crash test at 64km/h



ANCAP

Rated ★★★★★

Occupant Protection

Occupant Protection Score 35.69 out of 37

Variant: GLS

Eng: 1.4 litre

Kerb mass 1306 kg

Category: CAR - SMALL

Vehicles built: 2012

Tested by Euro NCAP

Important note: The *left-hand-drive* European model with 1.4 litre engine was tested by Euro NCAP. Hyundai provided evidence to ANCAP that all Australian variants provide comparable occupant protection.

Model History and Safety Features

The tested model of Hyundai i30 was introduced in Australia during 2012.

Dual front airbags, driver knee airbag, side airbags and head-protecting side curtains are standard equipment in Australia. The vehicle tested by Euro NCAP did not have a knee airbag. Antilock brakes (ABS), electronic brakeforce distribution (EBD) and electronic stability control (ESC) are also standard. Intelligent seat belt reminders are fitted to all seats.

Pretensioners are fitted to the front seat belts to reduce slack in the event of a crash.

OCCUPANT PROTECTION: 5 Stars

The HYUNDAI i30 scored 15.35 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 and a slight risk of serious leg injury for the driver.

The vehicle scored 15.33 out of 16 in the side impact crash test. There was a slight risk of serious chest 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 3.62 pts, upper legs 4 pts, lower legs 3.73 pts.

The passenger compartment held its shape well in the offset crash test. The clutch pedal moved rearwards by 53 mm. The brake pedal moved upwards 27 mm. The steering wheel hub moved 30mm forward, 3mm downward and 16 mm sideways. The front ("A") pillar moved 1 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 3.33 pts, abdomen 4 pts, pelvis 4 pts.

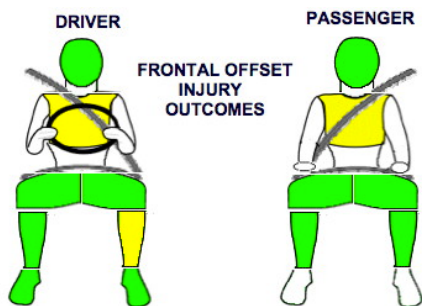
The vehicle was eligible for a pole impact test, since it had head-protecting side airbags. The vehicle earned the maximum two points in this test.

PEDESTRIAN PROTECTION: Acceptable

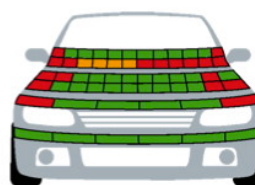
The bumper provided good protection to pedestrians and the car scored maximum points in this area. The front edge of the bonnet provided predominantly good protection. In most areas where a child's head might strike, the bonnet provided good protection but the protection of an adult's head was mixed.

PEDESTRIAN PROTECTION	Child head impacts	9
ACCEPTABLE	Adult head impacts	5.26
	Upper leg impacts	4.
	Lower leg impacts	6
	Total (out of 36)	24.26

Tested by Euro NCAP v5.3



Whiplash Protection (RCAR Protocol)



■ PASS
■ MARGINAL
■ FAIL

JUNE 2012

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ANCAP

Crash testing for safety

AUSTRALASIAN
NEW CAR ASSESSMENT
PROGRAM

TECHNICAL DATA - HYUNDAI i30 - From June 2012

INJURY MEASUREMENTS

Body region	Offset Crash Test at 64km/h (v5.2)		Side Impact Crash Test at 50km/h (v5.3)
	Driver	Passenger	Driver
Head HIC	364	296	27
Acceleration (g for 3ms)	44.6	44.9	17.6
Neck - Shear (kN)	0.51	0.56	-
Tension (kN)	1.25	1.10	-
Extension (Nm)	15.4	10.1	-
Chest Accln (g for 3ms)	-	-	-
Compression (mm)	24.35	24.63	25.33
Viscous criterion (m/s)	0.08	0.10	0.20
Abdomen - Force (kN)	-	-	0.940
Pelvis - Force (kN)	-	-	2.290
Upper legs Force (kN)			
Left	0.12	0.50	
Right	0.54	0.30	
Knee displ (mm)			
Left	0.10	1.10	
Right	0.20	0.00	
Lower legs Force (kN)			
Left	2.41	1.72	
Right	1.71	1.67	
Index (Upper/Low)			
Left	0.35 /0.28	0.24 /0.25	
Right	0.35 /0.27	0.38/0.22	

Bonus points (maximum 5)

Pole Test: 2 pts

Seat belt reminders: 3 (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	S	Intelligent seat belt reminder - front passenger	S
Seat belt pretensioners (Front/Rear outboard)	S/X	Intelligent seat belt reminder - rear seats	S

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