

Crash Tests

New Car Safety

Hyundai Santa Fe

06/2006 on 10/2009 - Frontal+Side+Head

Overall Evaluation



Overall Score
Variant: GLS

29.34 out of 37
Engine: 2.2 litre diesel
Category: Large SUV

Safety equipment, as tested, not standard on all variants. 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 Hyundai Santa Fe was introduced in Australia during 2006.

Dual front airbags are standard equipment. Antilock brakes (ABS), electronic brake distribution (EBD) are also standard. Side airbags, head-protecting side curtains and electronic stability control (ESC) are standard on the SLX and Elite variants but are not available on the SX variant. This package is standard on all New Zealand variants. An audible seat belt reminder is fitted to the driver seat but it was not eligible for a bonus point.

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 seat in both rear rows. This provides better protection than a two point (lap) seat belt.

Overall Evaluation: 4

The Hyundai Santa Fe scored 12.34 out of 16 in the offset crash test. The passenger compartment held its shape well. Protection from serious leg injury was marginal for the driver.

The vehicle scored 16 out of 16 in the side impact crash test and 1 point in the optional pole test.

Frontal Offset Crash Test

Body region scores out of 4 points each: Head/neck 4 pts, chest 2.7pts, upper legs 2pts, lower legs 3.64pts.

The passenger compartment held its shape well in the offset crash test. The brake pedal moved rearwards by 99mm and downwards 3mm. The steering wheel hub moved forwards 10mm, downwards 17mm and sideways 2mm. The front ("A") pillar moved 13mm rearwards. All doors remained closed during the crash. After the crash high manual effort were required to open the driver's door.

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 passengers head was cushioned by the airbag. Centre console components were a potential knee injury hazard for the passenger.

Side Impact Crash Test

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

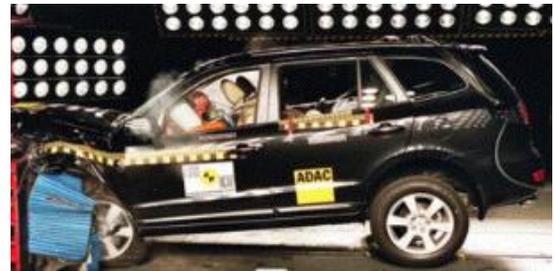
The vehicle was eligible for an optional pole impact test, since it had head-protecting side airbags and scored four points for the head in the side impact test. The manufacturer decided to go ahead with the pole test. The curtain did not deploy fully and the vehicle earned one point out of two.

Pedestrian rating (v4.1)

(0 stars)

Child head impacts: zero.
Adult head impacts: zero.
Upper leg impacts: zero.
Lower leg impacts: zero.
Total (out of 36): zero.

Offset crash test at 64km/hr



Injury Measurements

Refer to the information sheet 'How the tests are done'	Offset Crash Test at 64km/h (v4.1)		Side Impact Crash Test aa 50km/h (v4.1) Driver
	Driver	Passn	
Head			
- HIC	237	193	13
- Acceleration (g for 3ms)	38	36	14.7
Neck			
- Shear (kN)	0.4	0.23	
- Tension (kN)	1.36	0.66	
- Extension (Nm)	14	12.4	
Chest			
- Acceleration (g for 3ms)			
- Compression (mm)	31.12	19.21	16.91
- Viscous Criterion (m/s)	0.17	0.05	0.08
Abdomen			
- Force (kN)			0.47
Pelvis			
- Force (kN)			0.87
Upper Legs Force (kN)			
- Left	2.79	3.42	
- Right	2.17	0.46	
Knee Displacement (kN)			
- Left	0.2	3.6	
- Right	0	1	
Lower Legs Force (kN)			
- Left	0.89	2.23	
- Right	2.08	1.33	
Index (Upper Lower)			
- Left	0.22 0.18	0.23 0.33	
- Right	0.33 0.16	0.36 0.27	

Bonus points (maximum 5)

Pole Test: 1 point
Seat Belt Reminders: Not eligible - zero points

Modifiers for offset test scores

Head		no deduction
Chest		no deduction
Upper leg	Variable & Conc. loading, passenger 1pt L, 2pts R	2 pt deduction, L & R
Lower leg		no deduction
Foot score	Blocked pedal	3.84 points
Structure		

Modifiers for side impact test scores

Head		
Chest		no deduction
Upper leg		
Lower leg		
Foot score		
Structure	Pole test curtain did not fully deploy	1 pt deduction



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