

Crash Tests

New Car Safety

Hyundai Accent

06/2006 on 12/2009 - Dual Frontal

Overall Evaluation



Overall Score

Variant: 4 Dr Sedan S auto

21.21 out of 37

Engine: 1.6 litre

Category: Small Car

Model History and Safety Features

The tested model of Hyundai Accent was introduced in Australia during 2006. Dual front airbags are standard equipment. Antilock brakes (ABS) with electronic brake distribution (EBD), side airbags and head-protecting side curtains are standard on the SLX variants but not available on the S variants. An intelligent seat belt reminder is fitted to the driver's seat. 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 (lap) seat belt.

Overall Evaluation: 3

3 Stars. The Hyundai Accent scored 9.37 out of 16 in the offset crash test. The passenger compartment held its shape well. Protection from serious chest and leg injury was marginal for the driver. Passenger chest protection was marginal. The vehicle scored 10.85 out of 16 in the side impact crash test. Chest protection for the driver was poor.

Frontal Offset Crash Test

Body region scores out of 4 points each: Head/neck 4pts, chest 1.77pts, upper legs 2pts, lower legs 1.6pts. The passenger compartment held its shape well in the offset crash test. The brake pedal moved rearwards by 81mm and downwards 13mm. The steering wheel hub moved rearwards 24mm, upwards 37mm and sideways 8mm. The front ("A") pillar moved 30mm rearwards. All doors remained closed during the crash. After the crash tools 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 passenger's head was cushioned by the airbag.

Side Impact Crash Test

Body region scores out of 4 points each: Head 4pts, chest zero pts, abdomen 2.85pts, pelvis 4pts. The vehicle was not eligible for a pole impact test since it did not have head-protecting side airbags. This test can earn eligible vehicles an extra two points.

Pedestrian rating (v4.1)



Child head impacts: 4.57.
Adult head impacts: 5.00.
Upper leg impacts: zero.
Lower leg impacts: 0.80.
Total (out of 36): 10.37.

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	454	342	162
- Acceleration (g for 3ms)	54.7	47.6	57.2
Neck			
- Shear (kN)	0.3	0.73	
- Tension (kN)	1.31	1.49	
- Extension (Nm)	19.1	8.3	
Chest			
- Acceleration (g for 3ms)	45.6	34	
- Compression (mm)	37.64	33.86	40.12
- Viscous Criterion (m/s)	0.13	0.14	0.56
Abdomen			
- Force (kN)			1.432
Pelvis			
- Force (kN)			2.32
Upper Legs Force (kN)			
- Left	1.92	0.32	
- Right	2.1	2.28	
Knee Displacement (kN)			
- Left	4.68	0.36	
- Right	1.04	5.83	
Lower Legs Force (kN)			
- Left	2.03	1.53	
- Right	1.71	2.22	
Index (Upper Lower)			
- Left	0.48 0.61	0.3 0.19	
- Right	0.36 0.94	0.33 0.21	

Bonus points (maximum 5)

Pole Test: not eligible

Seat Belt Reminders: 1

Modifiers for offset test scores

Head		no deduction
Chest		no deduction
Upper leg	variable & Conc. loading	2 pt deduction R, 1 pt deduction L
Lower leg		no deduction
Foot score		4 points
Structure	steering column and pedal movements are	measured relative to driver's seat.

Modifiers for side impact test scores

Head		
Chest	spine loads	0.72pt deduction
Upper leg		
Lower leg		
Foot score		
Structure		



Version 1, Published on: 25/07/2007
Published by
New Car Assessment Program
PO Box 1555
Canberra ACT Australia 2601