

Crash Tests

New Car Safety

Hyundai Accent

03/2003 on 06/2005 - Dual Frontal

Overall Evaluation



Overall Score

Variant: 3 Dr Hatch

18.95 out of 37

Engine: 1.6 litre.

Category: Small Car

* High risk of life-threatening chest injury

Model History and Safety Features

The Hyundai Accent was introduced in 2000. In 2003 dual airbags became standard equipment. ABS brakes are optional.

Pre-tensioners are fitted to the front seat belts to reduce slack in the event of a crash. A two point seat belt is fitted to the centre rear seat. This provides inferior protection compared with a three point seat belt.

Overall Evaluation: 3

The Hyundai Accent scored 9.19 out of 16 in the offset crash test. The passenger compartment held its shape reasonably well in the offset crash test. Protection from serious leg and foot injury was marginal for the driver.

The vehicle scored 9.76 out of 16 in the side impact crash test. There was a high risk of serious chest injury for the driver.

Frontal Offset Crash Test

Body region scores out of 4 points each: Head/neck 4pts, chest 3.47pts, upper legs 0.80pts, lower legs 0.92pts.

The passenger compartment held its shape reasonably well in the offset crash test. The front part of the driver's floor was pushed rearwards 164mm. The brake pedal moved rearwards by 177mm and downwards 33mm, relative to the driver's seat. The dash moved 131mm towards the driver. The steering wheel hub moved rearwards 66mm, downwards 31mm and sideways 45mm, relative to the driver's seat. The front ("A") pillar moved 62mm rearwards. The width of the driver's doorway shortened by 39mm. 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 and a metal box behind the dash were potential sources 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 2.05pts, pelvis 3.71pts.

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)



4.14 points out of 36.

Child head impacts 2.14pts;

Adult head impacts zero pts;

Upper leg 2pts and lower leg impacts zero pts.

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)		Side Impact Crash Test aa 50km/h (v4)
	Driver	Passn	Driver
Head			
- HIC	354	258	110
- Acceleration (g for 3ms)	47.4	39.7	41.6
Neck			
- Shear (kN)	0.35	0.45	
- Tension (kN)	1.45	1.14	
- Extension (Nm)	23.6	15.2	
Chest			
- Acceleration (g for 3ms)	38.4	32.8	
- Compression (mm)	25.7	23.9	42.4
- Viscous Criterion (m/s)	0.09	0.06	0.58
Abdomen			
- Force (kN)			1.73
Pelvis			
- Force (kN)			3.22
Upper Legs Force (kN)			
- Left	6.7	0.45	
- Right	2.16	2.45	
Knee Displacement (kN)			
- Left	0.34	1.05	
- Right	1.5	8.51	
Lower Legs Force (kN)			
- Left	1.51	1.56	
- Right	0.86	1.36	
Index (Upper Lower)			
- Left	0.5 0.36	0.2 0.18	
- Right	0.33 0.31	0.62 0.38	

Bonus points (maximum 5)

Pole Test: Not eligible

Seat Belt Reminders: None fitted - zero points

Modifiers for offset test scores

Head	No deduction
Chest	No deduction
Upper leg	Conc. loading
Lower leg	1pt deduction L & R
Foot score	No deduction
Structure	Score zero points
	No deduction

Modifiers for side impact test scores

Head	Not assessed
Chest	Not assessed
Upper leg	Not assessed
Lower leg	Not assessed
Foot score	Not assessed
Structure	Not assessed



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