

# Crash Tests

## New Car Safety

### HYUNDAI GETZ

2002 to 2003

Driver airbag

#### Overall Evaluation



#### Overall score

21.78 out of 37

Variant: GL 3 DR HATCH

Eng:1.5L litre.

Kerb weight: 1080 kg

Category: SMALL CAR

Vehicles built: 10/02

#### Model History and Safety Features

The tested model of HYUNDAI GETZ was introduced in Australia during 2002.

The tested vehicle had a driver airbag and no passenger airbag. From late 2003 dual front airbags have become standard equipment but this does not affect the overall score since the worst of driver and passenger injury measurements is used in the scoring process.

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. Pretensioners 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 seat belt.

#### OVERALL EVALUATION : 3 Stars

The HYUNDAI GETZ scored 9.6 out of 16 in the offset crash test. The passenger compartment held its shape well except for footwell intrusion. Protection from serious leg injury was marginal for the driver.

The vehicle scored 12.18 out of 16 in the side impact crash test. There was a moderate risk of serious chest injury for the driver.

#### FRONTAL OFFSET CRASH TEST

Body region scores out of 4 points each: Head/neck 4pts, chest 2.84pts, upper legs 2pts, lower legs 0.76pts.

The passenger compartment held its shape well except that the front part of the driver's floor was pushed rearwards 188mm. The brake pedal moved rearwards by 121mm and upwards 48mm, relative to the driver's seat. The dash moved 88mm towards the driver. The steering wheel hub moved rearwards 60mm, upwards 67mm and sideways 8mm, relative to the driver's seat. The front ("A") pillar moved 69mm rearwards. The width of the driver's doorway shortened by 63mm. All doors remained closed during the crash. After the crash high manual effort was 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. There were no passenger head strikes.

#### SIDE IMPACT CRASH TEST

Body region scores out of 4 points each: Head 4pts, chest 1.52pts, abdomen 3.65pts, pelvis 3.35pts. Backplate modifier: 0.34 deduction.

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.



Offset crash test at 64km/h

#### INJURY MEASUREMENTS

| Refer to the information sheet "How the test are done" | Offset Crash Test at 64km/h (v4.0) |           | Side Impact Crash Test at 50km/h (v4.0) |
|--|------------------------------------|-----------|---|
|  | Driver                             | Passn     | Driver                                  |
| Head HIC   | 383                                | 287       | 210                                     |
| Acceleration (g for 3ms)                               | 52.1                               | 40.2      | 59.8                                    |
| Neck - Shear (kN)                                      | 0.24                               | 1.23      | -                                       |
| Tension (kN)   | 2.14                               | 1.65      | -                                       |
| Extension (Nm)   | 27.2                               | 22.9      | -                                       |
| Chest Accln (g for 3ms)                                | 43.3                               | 36.4      | -                                       |
| Compression (mm)                                       | 30.1                               | 28.2      | 34.4                                    |
| Viscous criterion (m/s)                                | 0.09                               | 0.06      | 0.39                                    |
| Abdomen - Force (kN)                                   | -                                  | -         | 1.13                                    |
| Pelvis - Force (kN)                                    | -                                  | -         | 3.49                                    |
| Upper legs Force (kN)                                  |                                    |           |   |
| Left   | 0.32                               | 0.36      |   |
| Right  | 2.89                               | 3.26      |   |
| Knee displ (mm)  |                                    |           |   |
| Left   | 1.18                               | 0.51      |   |
| Right  | 0.86                               | 6.17      |   |
| Lower legs Force (kN)                                  |                                    |           |   |
| Left   | 1.17                               | 1.8       |   |
| Right  | 1.65                               | 1.01      |   |
| Index (Upper/Low)                                      |                                    |           |   |
| Left   | 0.25/0.5                           | 0.19/0.2  |   |
| Right  | 0.31/1.13                          | 0.38/0.13 |   |

#### Bonus points (maximum 5)

Pole Test: Not eligible

Seat belt reminders: Not eligible

#### Modifiers for offset test scores

Head

No deduction

Chest

No deduction

Upper leg Variable & conc. loading

2 pt deduction L & R

Lower leg

No deduction

Foot score

Score 0.76 points

#### Pedestrian rating (v4.0)



5 points out of 36

Child head impacts 0pts; adult head impacts 5pts; upper leg 0pts and lower leg impacts 0pts.



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