

## TEST RESULTS

# Mercedes E-Class

Mercedes Benz E 220 CDI 'Avantgarde', LHD

2010



86%

ADULT OCCUPANT



77%

CHILD OCCUPANT



59%

PEDESTRIAN



86%

SAFETY ASSIST

## ADULT OCCUPANT

Total 31 pts | 86%

### FRONTAL IMPACT



Driver



Passenger

13,9 pts

### FRONTAL IMPACT

#### HEAD

Driver airbag contact	stable
Passenger airbag contact	stable

#### CHEST

Passenger compartment	stable
Windscreen Pillar rearward	3mm
Steering wheel rearward	none
Steering wheel upward	none
Chest contact with steering wheel	none

#### UPPER LEGS, KNEES AND PELVIS

Stiff structures in dashboard	none
Concentrated loads on knees	none

#### LOWER LEGS AND FEET

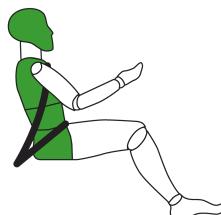
Footwell Collapse	none
Rearward pedal movement	brake - 8mm
Upward pedal movement	brake - 2mm

### SIDE IMPACT CAR

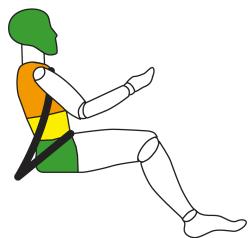
8 pts

### SIDE IMPACT POLE

6,7 pts



Car



Pole

### REAR IMPACT (WHIPLASH)

2,5 pts



### SIDE IMPACT

Head protection airbag	Yes
Chest protection airbag	Yes

### WHIPLASH

Seat description	Standard, fabric, 6 way adjust
Head restraint type	Active
Geometric assessment	0,9 pts

### TESTS

- High severity	2 pts
- Medium severity	2 pts
- Low severity	1,9 pts

## TEST RESULTS

### CHILD OCCUPANT

Total 38 pts | 77%

#### 18 MONTH OLD CHILD

**Restraint** Britax Romer Baby Safe  
**Group** 0, 0+  
**Facing** rearward  
**Installation** Adult seatbelt



PERFORMANCE	8,8 pts
INSTRUCTIONS	4 pts
INSTALLATION	2 pts

#### FRONTAL IMPACT

<b>Head forward movement</b>	protected
<b>Head acceleration</b>	good
<b>Chest load</b>	fair

#### SIDE IMPACT

<b>Head containment</b>	protected
<b>Head acceleration</b>	good

#### 3 YEAR OLD CHILD

**Restraint** Britax Romer Duo Plus  
**Group** 1  
**Facing** forward  
**Installation** ISOFIX anchorages and top tether



PERFORMANCE	10,7 pts
INSTRUCTIONS	4 pts
INSTALLATION	2 pts

#### FRONTAL IMPACT

<b>Head forward movement</b>	protected
<b>Head acceleration</b>	good
<b>Chest load</b>	fair

#### SIDE IMPACT

<b>Head containment</b>	protected
<b>Head acceleration</b>	good

#### VEHICLE BASED ASSESSMENT

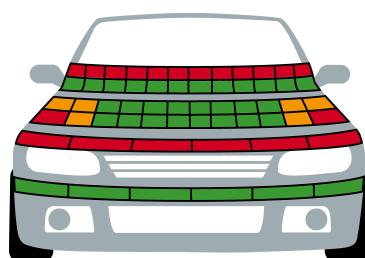
6 pts

#### Airbag warning Label

Text and pictogram label permanently attached to both side of the passenger sun visor

### PEDESTRIAN

Total 21 pts | 59%



### SAFETY ASSIST

Total 6 pts | 86%

#### SPEED LIMITATION ASSISTANCE

0 pts

- active, standard

#### ELECTRONIC STABILITY CONTROL (ESC)

3 pts

- standard

#### SEATBELT REMINDER

3 pts

- driver

1 pts

- passenger

1 pts

- rear

1 pts

HEAD	15,2 pts
PELVIS	0 pts
LEG	6 pts

## TEST RESULTS

### DETAILS OF TESTED CAR

#### SPECIFICATIONS

Tested model	Mercedes Benz E 220 CDI 'Avantgarde', LHD
Body type	4 door saloon
Year of publication	2010
Kerb weight	1735kg
VIN from which rating applies	from WDD21200511A133988

#### SAFETY EQUIPMENT

Front seatbelt pretensioners	
Front seatbelt load limiters	
Driver frontal airbag	dual stage
Front passenger frontal airbag	dual stage
Side body airbags	
Side head airbags	
Driver knee airbag	

### COMMENTS

The rating of the Mercedes E Class has been upgraded from 2009 to 2010. The car is unchanged and, apart from the pedestrian tests which have been repeated, test results have been carried over from the previous year. However, the thresholds for the different star ratings have been increased and this assessment shows how the car rates against the more demanding 2010 requirements.

#### Adult occupant

The E Class is fitted as standard with Mercedes Benz's 'PRE SAFE' system which senses when an accident is about to occur and primes the restraint and protection systems in readiness for the collision. In Euro NCAP's frontal and side barrier impacts, the PRE-SAFE System was not activated. The passenger compartment remained stable in the frontal impact, the windscreen pillar moving rearwards by only 3mm. Dummy readings indicated good protection of the knees and femurs of both driver and passenger. Mercedes were able to demonstrate that occupants of different sizes, and those sat in different seating positions, would have a similar level of protection against upper leg injuries. Maximum points were scored in the side barrier test. In the more severe side pole test, protection offered by the chest was rated as marginal. Protection against whiplash injuries in a rear impact was also rated as marginal.

#### Child occupant

In the frontal impact, forward movement of the head of the 3 year dummy was not excessive. In the side barrier impact, the head of the 3 year and 18 month infant were properly contained within the protective shell of the CRS. Neither dummy recorded values in the test which would reflect poor protection. Rearward facing child restraints sold by Mercedes Benz are automatically detected by the front passenger seat and the airbag for that seating position is disabled. However, other rearward facing child restraints would not be recognised by the system and the airbag remains active. The car contains a permanent label, clearly warning of the potential dangers of using a rearward facing CRS without disabling the passenger airbag.

#### Pedestrian

New pedestrian tests were needed to update the rating of the E Class to 2010. The bumper scored maximum points for the protection it offered to pedestrians' legs. However, the front edge of the bonnet was rated as poor. The E-Class is equipped with a pop-up bonnet, giving greater clearance between the bonnet surface and the rigid components of the engine compartment when the car senses that it is striking a pedestrian. Good protection was provided in most parts of the bonnet likely to be struck by a child's head and in many of the areas where an adult's head might strike.

#### Safety assist

The E Class is equipped with Electronic Safety Control (ESC) as standard equipment on all variants. A seatbelt reminder system, covering both front and rear seats, is also standard equipment.