

Crash Test Results

New Car Safety

VW POLO (LHD)

2010 on Front+side+head airbags



Offset crash test at 64km/h

FRONTAL OFFSET CRASH TEST (v4.2)

Body region scores out of 4 points each: Head/neck 4 pts, chest 3.98 pts, upper legs 3 pts, lower legs 4 pts.

The passenger compartment held its shape well in the offset crash test. The accelerator pedal moved rearwards by 27 mm. The clutch pedal moved downwards 32mm. The steering wheel hub moved 17mm forward, 1mm downward and 2 mm sideways. The front ("A") pillar did not move noticeably rearwards. All doors remained closed during the crash. After the crash all doors could be opened with normal effort.

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 (v4.2)

Body region scores out of 4 points each: Head 4 pts, chest 3.98 pts, abdomen 4 pts, pelvis 4 pts.

The vehicle was eligible for an optional pole impact test. The manufacturer decided to go ahead with the pole test and the vehicle earned a further two points. The side curtains on the Australasian Polos can be expected to provide comparable front occupant protection to the combo side airbags used in the Euro NCAP test.

PEDESTRIAN PROTECTION: 2 Stars

The bumper provided mixed protection for pedestrians' legs. The front edge of the bonnet was marginal to poor. The centre of the bonnet offered good protection to a child's head but poorer protection towards the edges. In most areas likely to be struck by an adult's head, poor protection was provided.



Occupant Protection Score 34.96 out of 37

Variant: 5 door hatch Eng: 1.2 litre
Kerb weight: 1035 kg Category: CAR - LIGHT
Vehicles built: 2009 Tested by Euro NCAP

Important note: The left-hand-drive European model with combo side airbags 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 Volkswagen Polo was introduced in Australia and New Zealand during 2010.

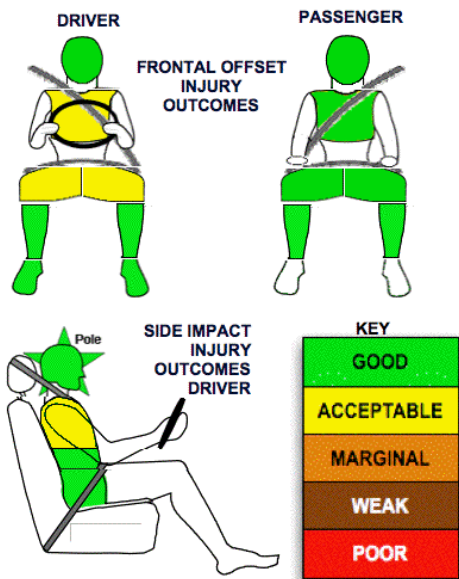
Dual front airbags, side airbags and head-protecting side curtains are standard equipment. Antilock brakes (ABS), electronic brakeforce distribution (EBD), emergency brake assist and electronic stability control (ESC) are also standard. Intelligent seat belt reminders are fitted to both front seats.


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 (lap) seat belt.

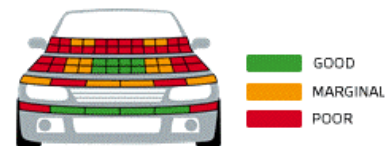
OCCUPANT PROTECTION: 5 Stars

The Polo scored 14.98 out of 16 in the offset crash test. The passenger compartment held its shape very well. There was a slight risk of serious chest and leg injury for the driver.

The vehicle scored 15.98 out of 16 in the side impact crash test. A further two points were scored in the optional pole test.



PEDESTRIAN PROTECTION		
 Rated ★ ★ ★ ★	Child head impacts	7.73
	Adult head impacts	0.74
	Upper leg impacts	2.43
	Lower leg impacts	4
	Total (out of 36)	14.9



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TECHNICAL DATA - VW POLO - 2010 on

INJURY MEASUREMENTS

Body region	Offset Crash Test at 64km/h (v4.2)		Side Impact Crash Test at 50km/h (v4.2)
	Driver	Passenger	Driver
Head HIC	237	290	59
Acceleration (g for 3ms)	38.7	42.6	28.8
Neck - Shear (kN)	0.27	0.37	-
Tension (kN)	1.09	0.52	-
Extension (Nm)	22.3	7.3	-
Chest Accln (g for 3ms)	-	-	-
Compression (mm)	22.16	13.37	22.09
Viscous criterion (m/s)	0.08	0.05	0.21
Abdomen - Force (kN)	-	-	0.770
Pelvis - Force (kN)	-	-	1.790
Upper legs Force (kN)			
Left	0.57	2.80	
Right	1.18	0.90	
Knee displ (mm)			
Left	0.00	0.10	
Right	0.90	0.00	
Lower legs Force (kN)			
Left	1.38	0.99	
Right	1.60	1.24	
Index (Upper/Low)			
Left	0.36 /0.23	0.20 /0.14	
Right	0.22 /0.15	0.27/0.13	

Bonus points (maximum 5)

Pole Test: 2 pts (Combo side airbag used in Euro NCAP test with chest & head protection)

Seat belt reminders: 2 (see table below for details)

Modifiers - deductions from offset test scores

Head	No deduction
Chest	No deduction
Upper leg Variable loading	0.5 pt deduction Left & 1 pt Right
Lower leg	No deduction
Foot score	Score 4 points

Modifiers - deductions from side impact test scores

Chest	No deduction
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Safety features

These specifications are subject to change. Please check with manufacturer for the latest specifications.



Driver airbag	S	Antilock (ABS) brakes / Electronic brake distribution / Brake Assist	S/S/S
Passenger front airbag	S	Electronic stability control (ESC, VSC, DSC, ESP, VSA)	S#
Side airbags, front seats - chest protection	S	3 point centre rear seat belt	S
Side airbags, front seats - head protection	S	Active head restraints - front seats	S
Side airbags, rear seats - head protection	S*	Intelligent seat belt reminder - driver	S
Driver knee airbag	X	Intelligent seat belt reminder - front passenger	S
Seat belt pretensioners (Front/Rear outboard)	S/X	Intelligent seat belt reminder - rear seats	X

Key: * Side curtains that protect rear occupants, as well as front, are standard in Australasia but were not on the vehicle tested by Euro NCAP

S = standard on all variants

O = optional on base variant. May be standard on higher variants

V= not available on base variant but standard or optional on higher variants

X = not available on any variant

ESC required by ANCAP for 5 star rating from 2008