



2021





Adult Occupant



76%

Child Occupant



82%

Vulnerable Road Users



76%



Safety Assist

67%

SPECIFICATION

Tested Model	Hyundai BAYON 1.0 T-GDI GL, LHD
Body Type	- 5 door SUV
Year Of Publication	2021
Kerb Weight	1230kg
VIN From Which Rating Applies	- all BAYONs
Class	Small Off-Road



SAFETY EQUIPMENT

	Driver	Passenger	Rear
FRONTAL CRASH PROTECTION			
Frontal airbag	•	•	×
Belt pretensioner	•	•	•
Belt loadlimiter	•	•	•
Knee airbag	×	×	×
LATERAL CRASH PROTECTION			
Side head airbag	•	•	
Side chest airbag	•	•	×
Side pelvis airbag	•	•	×
Centre Airbag	×	×	×

Euro NCAP © Hyundai BAYON Oct 2021 2/18



SAFETY EQUIPMENT (NEXT)

	Driver	Passenger	Rear
CHILD PROTECTION			
Isofix		×	•
Integrated CRS	_	×	×
Airbag cut-off switch	_	•	_
SAFETY ASSIST			
Seat Belt Reminder	•	•	•

OTHER SYSTEMS	
Active Bonnet	×
AEB Vulnerable Road Users	
AEB Pedestrian - Reverse	×
AEB Car-to-Car	
Speed Assistance	•
Lane Assist System	•

Note: Other equipment m	nay be available on the	e vehicle but was not	considered in the test year.

Fitted to the vehicle as standard	Fitted to the vehicle as part of the safety pack
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C	Not fitted to the test vehicle but available as option or as part of the safety pack	•	Not available	— Not applicable
	J	•	•	

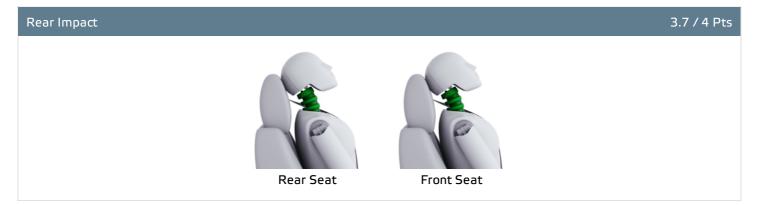




Total 29.2 Pts / 76%











Total 29.2 Pts / 76%

GOOD	ADEQUATE	MARGINAL	WEAK	POOR	
Rescue and Extrication	ו				2.0 / 2 Pts
	Rescue Sheet	Available, ISO compliant			PDF
	Advanced eCall	Available			
	Multi Collision Brake	Available			

Comments

The passenger compartment of the BAYON remained stable in the frontal offset test. Dummy numbers showed good protection of the knees and femurs of both the driver and passenger. Hyundai showed that, on the passenger's side, a similar level of protection would be provided to occupants of different sizes and to those sitting in different positions. However, on the driver's side, structures in the dashboard were considered a risk to occupants' legs and a penalty was applied to the score. Protection of the driver's chest was rated as marginal, based on dummy readings of chest compression. Analysis of the deceleration of the impact trolley during the test, and analysis of the deformable barrier after the test, revealed that the BAYON would be a benign impact partner in a frontal collision. In the full-width rigid barrier test, protection of the chest of the rear dummy was rated as weak, based on compression of the chest, but protection was otherwise good or adequate. In the side barrier test, protection of all critical body areas was good and the car scored maximum points in this part of the assessment. In the more severe side pole impact, protection of all critical body areas was good or adequate. The BAYON is not equipped with a counter-measure to mitigate occupant to occupant injuries in the event of a side impact. Mitigation of the extent to which a body would be thrown to the opposite side of a car in a lateral collision was rated as poor. Tests on the front seats and head restraints demonstrated good protection against whiplash injuries in the event of a rear-end collision. A geometric analysis of the rear seats also indicated good whiplash protection. The BAYON is equipped with an advanced eCall system which alerts the emergency services in the event of a crash, and with MCB, a system which applies the brakes after a collision to reduce the likelihood of secondary impacts.



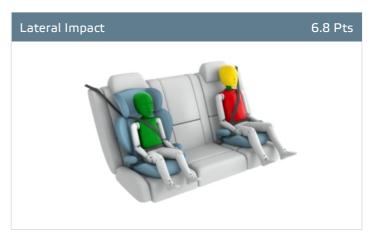
Total 40.4 Pts / 82%

GOOD ADEQUATE MARGINAL WEAK POOR

Crash Test Performance based on 6 & 10 year old children

21.4 / 24 Pts





Restraint for 6 year old child: *Britax Römer Kidfix IIIs* Restraint for 10 year old child: *Graco Junior*

Safety Features 7.0 / 13 Pts

	Front Passenger	2nd row outboard	2nd row center
Isofix	×	•	×
i-Size	×	•	×
Integrated CRS	×	×	×

Fitted to test car as standard

O Not on test car but available as option

🗶 Not available



CRS Installation Check 12.0 / 12 Pts



i-Size CRS











ISOFIX CRS









Total 40.4 Pts / 82%

Universal Belted CRS











Total 40.4 Pts / 82%

	Seat Position			
	Front		2nd row	
	PASSENGER	LEFT	CENTER	RIGHT
Maxi Cosi 2way Pearl & 2wayFix (i-Size)	_	•	_	•
Maxi Cosi 2way Pearl & 2wayFix (i-Size)	_	•	_	•
BeSafe iZi Kid X2 i-Size (i-Size)	_	•	_	•
Britax Römer TriFix2 i-Size (i-Size)	_	•	_	•
BeSafe iZi Flex FIX i-Size (i-Size)	_	•	_	•
BeSafe iZi Combi X4 ISOfix (ISOFIX)	_	•	_	•
Cybex Solution Z i-Fix (ISOFIX)	_	•	_	•
Maxi Cosi Cabriofix (Belt)	•	•	•	•
Maxi Cosi Cabriofix & EasyFix (Belt)	•	•	•	•
Britax Römer King II LS (Belt)	•	•	•	•
Cybex Solution Zi-Fix (Belt)	•	•	•	•

Install without problem

Install with care

Safety critical problem

🗶 Installation not allowed

— Not available

Comments

In the frontal offset test, protection of both child dummies was good for all body regions except the neck of the 10 year dummy, protection of which was rated as weak, on the basis of measurements of tensile forces. In the side barrier impact, protection of the head of the 10 year dummy was adequate but that of the chest was rated as poor on the basis of accelerations measured during the test. The front passenger airbag can be disabled to allow a rearward-facing child restraint to be used in that seating position. Clear information is provided to the driver regarding the status of the airbag and the system was rewarded. All of the child restraint types for which the BAYON is designed could be properly installed and accommodated in the car.



★ VULNERABLE ROAD USERS

Total 41.4 Pts / 76%

GOOD	ADEQUATE	MARGINAL	WEAK	POOR	

Pedestrian 26.9 / 36 Pts



Head Impact	14.9 Pts
Pelvis Impact	6.0 Pts
Leg Impact	6.0 Pts

Vulnerable Road Users 14.6 / 18 Pts

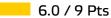
System Name	Forward Collision-Avoidance Assist
Туре	Auto-Brake with Forward Collision Warning
Operational From	5 km/h



VULNERABLE ROAD USERS

Total 41.4 Pts / 76%

AEB Pedestrian



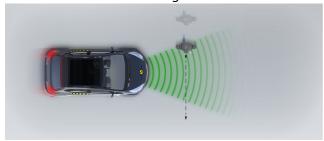
Day time

Vehicle reversing into standing pedestrian

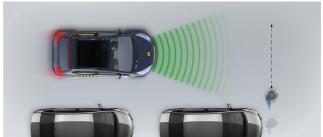


Pedestrian crossing a road into which a car is turning

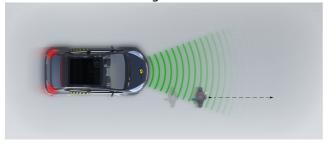
Adult crossing the road



Child running from behind parked vehicles



Adult along the roadside

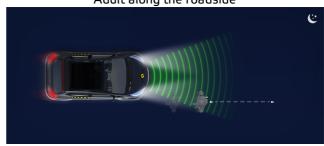


Night time

Adult crossing the road



Adult along the roadside



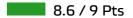




VULNERABLE ROAD USERS

Total 41.4 Pts / 76%

AEB Cyclist

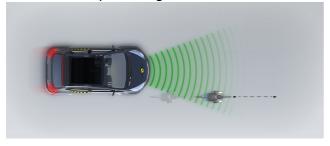


Cyclist from nearside, obstructed view





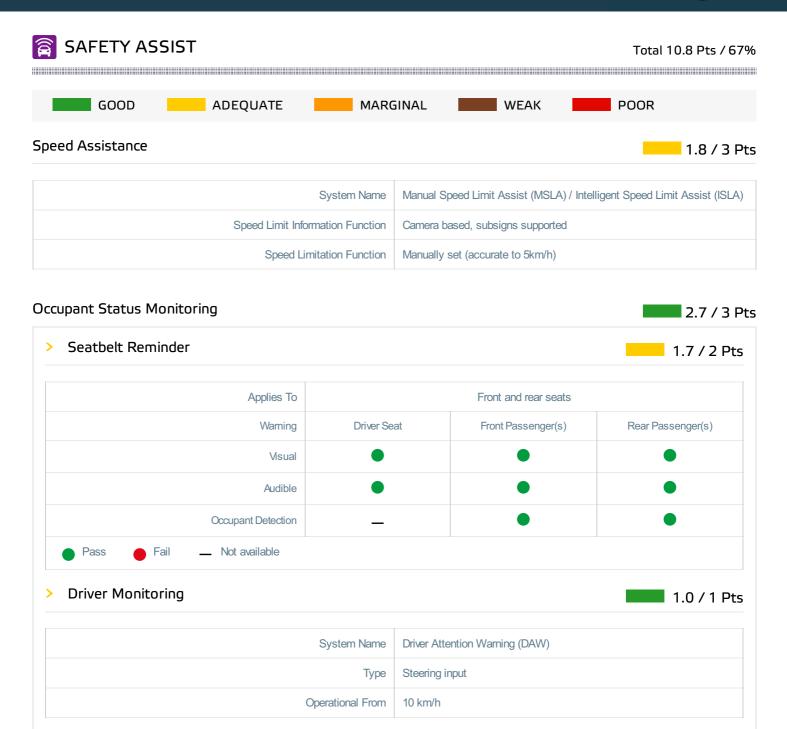
Cyclist along the roadside



Comments

The protection provided by the bonnet to the head of a struck pedestrian was mixed but was mostly rated as between marginal and good. Poor results were recorded at the base of the windscreen and on the stiff windscreen pillars. The bumper provided good protection to pedestrians' legs at all test locations and protection of the pelvis was also good, the BAYON scoring maximum points in these areas of assessment. The autonomous emergency braking system of the BAYON detects vulnerable road users, as well as other vehicles. The system's response to pedestrians was adequate and its response to cyclists was good, with collisions avoided or mitigated in most test scenarios.









Lane Support 3.5 / 4 Pts

System Name	LKA
Туре	LKA and ELK
Operational From	60 km/h
PERFORMANCE	
Emergency Lane Keeping	GOOD
Lane Keep Assist	GOOD
Human Machine Interface	GOOD

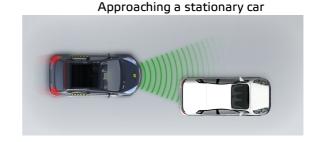
AEB Car-to-Car 2.8 / 6 Pts

System Name	Forward Collision-Avoidance Assist
Туре	Autonomous emergency braking and forward collision warning
Operational From	5 km/h
Sensor Used	camera

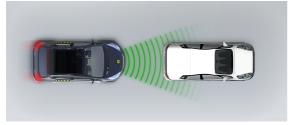
Autobrake function only

Test car turns across the path of an approaching car





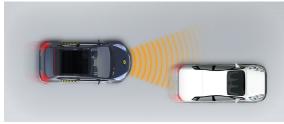
Approaching a stationary car



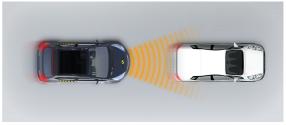
Approaching a stationary car



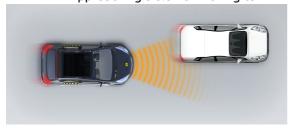
Approaching a slower moving car



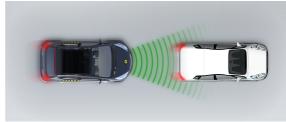
Approaching a slower moving car



Approaching a slower moving car



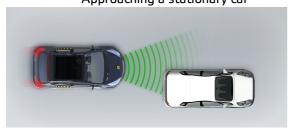
Approaching a braking car



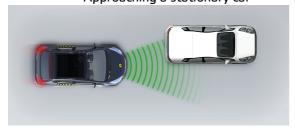


Driver reacts to warning

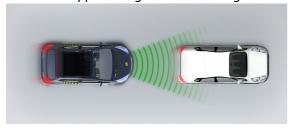
Approaching a stationary car



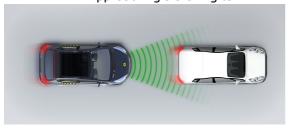
Approaching a stationary car



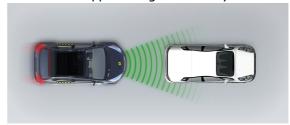
Approaching a slower moving car



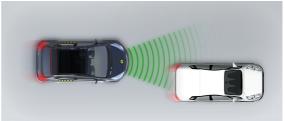
Approaching a braking car



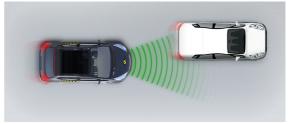
Approaching a stationary car



Approaching a slower moving car



Approaching a slower moving car







Comments

A seatbelt reminder is standard for the front and rear seats and a driver monitoring system monitors steering inputs for signs of fatigued driving. The autonomous emergency braking system showed only marginal performance in tests of its reaction to other vehicles. Speed assistance is provided by a system which informs the driver of the local limit, allowing the limiter to be set appropriately. A lane support system gently corrects the course of a car which is drifting out of lane and also intervenes in more critical situations.



RATING VALIDITY

Variants of Model Range

Body Type	Engine	Drivetrain	Rating Applies	
			LHD	RHD
5 door SUV	1.2 MPI	4 x 2	✓	✓
5 door SUV	1.0 T-GDI*	4 x 2	✓	✓
5 door SUV	1.0 T-GDI 48V MHEV	4 x 2	✓	✓

^{*} Tested variant

Annual Reviews and Facelifts

Date	Event	Outcome	
October 2021	Rating Published	2021 🛨 🛨 🛨 🏠	✓