



**Hyundai SANTA FE**  
With Safety Pack

2024



Adult Occupant



84%

Child Occupant



88%

Vulnerable Road Users



77%

Safety Assist



79%

## SPECIFICATION

Tested Model	Hyundai SANTA FE HEV AWD, LHD
Safety pack	SmartSense
Body Type	- 5 door SUV
Year Of Publication	2024
Kerb Weight	2050kg
VIN From Which Rating Applies	- all Santa Fe with optional safety pack
Class	Large SUV

## 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	●	✘	—

	Driver	Passenger	Rear
CHILD PROTECTION			
Isofix/i-Size	—	✘	●
Integrated CRS	—	✘	✘
Airbag cut-off switch	—	●	—
Child presence detection	—	✘	●
SAFETY ASSIST			
Seat Belt Reminder	●	●	●

## SAFETY EQUIPMENT (NEXT)

OTHER SYSTEMS	
Active Bonnet	✘
AEB Vulnerable Road Users	●
AEB Pedestrian - Reverse	○
Cyclist Dooring Prevention	●
AEB Motorcyclist	●
AEB Car-to-Car	●
Speed Assistance	●
Lane Assist System	●
Fatigue / Distraction Detection	●

**Note:** Other equipment may be available on the 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  
 ○ Not fitted to the test vehicle but available as option or as part of the safety pack    ✘ Not available    — Not applicable

 ADULT OCCUPANT

Total 34.0 Pts / 84%


GOOD ADEQUATE MARGINAL WEAK POOR

Frontal Impact 12.7 / 16 Pts




Mobile Progressive Deformable Barrier Full Width Rigid Barrier

Lateral Impact 15.3 / 16 Pts



Side Mobile Barrier Side Pole Far-Side Excursion Occupant Interaction

Rear Impact 3.4 / 4 Pts



Rear Seat Front Seat

ADULT OCCUPANT

Total 34.0 Pts / 84%

GOOD
  ADEQUATE
  MARGINAL
  WEAK
  POOR

Rescue and Extrication		2.7 / 4 Pts
Rescue Sheet	Available, ISO compliant	
Advanced eCall	Available	
Multi Collision Brake	Available	
Submergence Check	Compliant	

### Comments

The passenger compartment of the Hyundai Santa Fe remained stable in the frontal offset test. Dummy readings indicated good protection of the knees and femurs for the driver and front passenger. Hyundai demonstrated that a similar level of protection would be provided to occupants of different sizes and to those sitting in different positions. Protection of the driver's chest was rated as marginal, based on dummy readings of compression. Analysis of the deceleration of the impact trolley during the test, and analysis of the deformable barrier after the test, revealed that the Hyundai Santa Fe would be a moderately benign impact partner in a frontal collision. In the full-width rigid barrier test, protection was good for all critical body regions of the driver and good or adequate for the rear passenger. In the side barrier test, full points were scored. In the more severe side pole impact, protection of the chest was marginal but that of other body areas was good or adequate. Control of excursion (the extent to which a body is thrown to the other side of the vehicle when it is hit from the far side) was found to be adequate. The Hyundai Santa Fe has a countermeasure to mitigate against occupant-to-occupant injuries in such impacts. The airbag performed well in Euro NCAP's tests with dummy readings indicating good protection for both the driver and passenger. 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 indicated marginal whiplash protection. The car has an advanced eCall system which alerts the emergency services in the event of a crash, and a system to prevent secondary impacts after the car has been in a collision. Hyundai demonstrated that the doors and windows would be openable to allow occupants to escape in the event of vehicle submergence.

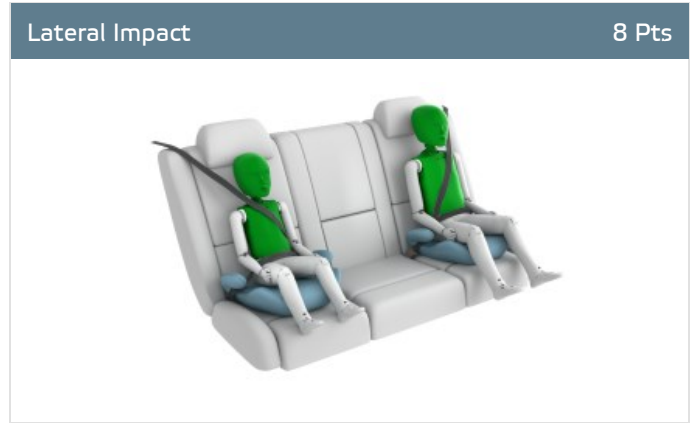
**CHILD OCCUPANT**

Total 43.2 Pts / 88%

■ GOOD   
 ■ ADEQUATE   
 ■ MARGINAL   
 ■ WEAK   
 ■ POOR

Crash Test Performance based on 6 & 10 year old children

24.0 / 24 Pts



Restraint for 6 year old child: *CYBEX Solution T i-Fix*  
 Restraint for 10 year old child: *Peg Perego Viaggio 2-3 Shuttle*

**Safety Features**

7.3 / 13 Pts

	Front Passenger	2nd row outboard	2nd row center	3rd row outboard *
Isofix	✘	●	●	●
i-Size	✘	●	●	●
Integrated CRS	✘	✘	✘	✘
Top tether	✘	●	●	●
Child Presence Detection	✘	●	●	●

\* Third row seats available as option

● Fitted to test car as standard   
 ○ Not on test car but available as option   
 ✘ Not available

**CRS Installation Check**

12.0 / 12 Pts

i-Size	Seat Position						
	Front		2nd row			3rd row	
			Left	center	Right	Left	Right
	—	—	●	—	●	●	●

● Easy   
 ● Difficult   
 ● Safety critical   
 ✘ Not allowed  
✘ Airbag ON   
 Rearward facing restraint installation not allowed   
✘ Airbag OFF

**CHILD OCCUPANT**

Total 43.2 Pts / 88%


Isofix	Seat Position						
	Front		2nd row			3rd row	
			Left	center	Right	Left	Right
	-	-	●	-	●	●	●
	-	-	●	-	●	●	●
	-	-	●	-	●	●	●
	-	-	●	-	●	●	●
	-	-	●	-	●	●	●
	-	-	●	-	●	●	●

● Easy    ● Difficult    ● Safety critical    ✗ Not allowed  
 Airbag ON    Rearward facing restraint installation not allowed    Airbag OFF

Seatbelt Attached	Seat Position						
	Front		2nd row			3rd row	
			Left	center	Right	Left	Right
	✗	●	●	●	●	●	●
	✗	●	●	●	●	●	●
	✗	●	●	●	●	●	●
	✗	●	●	●	●	●	●
	✗	●	●	●	●	●	●
	✗	●	●	●	●	●	●

● Easy    ● Difficult    ● Safety critical    ✗ Not allowed  
 Airbag ON    Rearward facing restraint installation not allowed    Airbag OFF

Version 021224

 CHILD OCCUPANT

Total 43.2 Pts / 88%

## Comments

In both the frontal offset test and the side barrier impact, protection of all critical parts of the body was good for the 6 and 10 year dummy, and the Hyundai Santa Fe scored maximum points in this part of the assessment. 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. The Santa Fe is equipped with an indirect 'child presence detection' system, which issues a warning when it recognises that a child or infant may have been left in the car. All of the child restraint types for which the Hyundai Santa Fe is designed could be properly installed and accommodated in the car.



**VULNERABLE ROAD USERS**

Total 48.7 Pts / 77%



**VRU Impact Protection** 26.1 / 36 Pts



Pedestrian & Cyclist Head	12.1 Pts
Pelvis	3.3 Pts
Femur	4.5 Pts
Knee & Tibia	6.2 Pts

**VRU Impact Mitigation** 22.7 / 27 Pts

System Name	Forward Collision-Avoidance Assist (FCA)
Type	Auto-Brake with Forward Collision Warning
Operational From	5 km/h



**AEB Pedestrian**  5.7 / 9 Pts

Scenario	Day time	Night time
Car reversing into adult or child		—
Adult crossing a road into which a car is turning		—
Adult crossing the road		
Child running from behind parked vehicles		
Adult along the roadside		

— Currently not tested

**AEB Cyclist**  7.5 / 8 Pts

Scenario	Day time
Approaching cyclist crossing from behind parked vehicles	
Turning across path of an oncoming cyclist	
Approaching a crossing cyclist	
Approaching a cyclist along the roadside	

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**VULNERABLE ROAD USERS**

Total 48.7 Pts / 77%

GOOD
  ADEQUATE
  MARGINAL
  WEAK
  POOR

**Cyclist Dooring Prevention**  0.8 / 1 Pts

Scenario	Scenario
Dooring a passing cyclist	warning, all side doors"

**AEB Motorcyclist**  5.7 / 6 Pts

Scenario	Autobrake function only	Driver reacts to warning
Approaching a stationary motorcyclist		
Approaching a braking motorcyclist		
Turn across the path of an oncoming motorcyclist		—

— Currently not tested

**Lane Support Motorcyclist**  3.0 / 3 Pts

Scenario	Day time
Changing lane across the path of an oncoming motorcyclist	
Changing lane across the path of an overtaking motorcyclist	

**Comments**

Protection of the head of a struck pedestrian or cyclist was predominantly good or adequate, with poor results recorded on the stiff windscreen pillars and at the edges of the bonnet. Protection of the pelvis was mixed. Protection of the femur was good at all test locations while that of the knee and tibia ranged from good to poor. The autonomous emergency braking (AEB) system of the Hyundai can respond to vulnerable road users as well as to other vehicles. The system's response both to pedestrians was adequate but there was no protection of pedestrians to the rear of the car. The system's performance in tests of its reaction to cyclists was also adequate, including 'dooring', where a door is suddenly opened in the path of a cyclist approaching from behind. Performance of the AEB and lane support systems was good in tests of their response to motorcyclists.

**SAFETY ASSIST**

Total 14.4 Pts / 79%

GOOD
  ADEQUATE
  MARGINAL
  WEAK
  POOR

**Speed Assistance**  2.2 / 3 Pts

System Name	Manual Speed Limit Assist (MSLA) / Intelligent Speed Limit Assist (ISLA)
Speed Limit Information Function	Camera & Map, subsigns supported
Speed Limitation Function	Intelligent Speed Limiter default ON (accurate to 5km/h)

**Occupant Status Monitoring**  2.3 / 3 Pts

**> Seatbelt Reminder**  0.8 / 1 Pts

Applies To	Front and rear seats, including optional third row		
Warning	Driver Seat	Front Passenger(s)	Rear Passenger(s)
Visual	●	●	●
Audible	●	●	●
Occupant Detection	—	●	●

Pass
  Fail
  Not available


**> Driver Monitoring**  1.5 / 2 Pts




System Name	In-Cabin-Camera(ICC) system
Type	Direct eye monitoring
Operational From	10 km/h
Fatigue	Drowsiness, Microsleep and Sleep
Distraction	Long and Short Distraction

 SAFETY ASSIST


Total 14.4 Pts / 79%

Lane Support









 3.0 / 3 Pts

System Name	Lane Keeping Assist (LKA)
Type	LKA and ELK
Operational From	55 km/h
<b>PERFORMANCE</b>	
Emergency Lane Keeping	 GOOD
Lane Keep Assist	 GOOD
Human Machine Interface	 GOOD

AEB Car-to-Car

 6.9 / 9 Pts

System Name	Forward Collision-Avoidance Assist (FCA)
Type	Autonomous emergency braking and forward collision warning
Operational From	5 km/h
Sensor Used	camera and radar

Scenario	Autobrake function only	Driver reacts to warning
Approaching a car crossing a junction		
Approaching a car head-on		—
Turning across the path of an oncoming car		—
Approaching a stationary car		
Approaching a slower moving car		—
Approaching a braking car		—

— Currently not tested



## SAFETY ASSIST

Total 14.4 Pts / 79%

## Comments

Overall, the performance of the autonomous emergency braking (AEB) system was good in tests of its reaction to other vehicles, with impacts being avoided in most tests. A seatbelt reminder system is fitted as standard to the front and rear seats. The car has a direct driver status monitoring system as standard, detecting driver fatigue and several types of distraction. The lane support system gently corrects the vehicle's path if it is drifting out of lane and also intervenes in some more critical situations. The speed assistance system identifies the local speed limit. The driver can choose to allow the limiter to be set automatically by the system.

## RATING VALIDITY

### Variants of Model Range

Body Type	Engine & Transmission	Model Name/Code	Drivetrain	Rating Applies	
				LHD	RHD
5 door SUV	Hybrid	text	4 x 4 *	✓	✓
5 door SUV	Hybrid	text	4 x 2	✓	✓
5 door SUV	Plug-in Hybrid	text	4 x 4	✓	✓

\* Tested variant

### Annual Reviews and Facelifts

Date	Event	Outcome
December 2024	Rating Published	2024 ★ ★ ★ ★ ★ ✓