

New overall evaluation for vehicle safety



Occupants protection 70.92 points 85.97 points **Pedestrian Protection PSBR** 4.0 points

* As the evaluation method for the pedestrian protection performance was changed, it was multiplied by the correction coefficient so that it would be equal to the collision safety performance evaluations for FY 2011 to 2015.)

Test vehicle Mira e:s / SUBARU PLEO PLUS / TOYOTA

PIXIS EPOCH

Sold 2017.5

Manufacture DAIHATSU MOTOR CO.,LTD.

Type DBA-LA350S

Displacement 658cc Vehicle weight 670kg

Specification Length \times Width \times Height: 3,395 \times 1,475 \times 1,500mm

5-door hatchback、CVT、FF、Seating Capacity:4

Tire 155/65R14 75S Test Vehicle Weight : Full-wrap:882kg

> Offset:881kg Side: 766kg

Collision Tests

Full-wrap frontal collision test

				Head		Neck			Chest				Le	gs				Body de	formation	
Pa	ssenger prote	ction perfo	rmance	Injury load	Shearing load	Tensile load	Moment of extension	Secondary contact of upper chest	Resultant accelerati on	Chest displacem ent		r load N]	Righ	t leg	Left	leg	Steering deforma			pedal tion[mm]
	Evaluation	Overall points	Score rate	[HIC]	[kN]	[kN]]	[Nm]	and steering wheel	[m/s²- 3ms]	[mm]	Right leg	Left leg	Upper TI	Lower TI	Upper TI	Lower TI	Rear displacem ent	Upper displacem ent	Rear displacem ent	Upper displacem ent
Driver's seat	Level4	9.48	79.1%	566.3	0.48	1.72	39.17	None		30.80	0.37	0.74	0.56	0.49	0.83	0.51	0	0	73	0
passeng er's seat	Level4	9.62	80.2%	503.1	0.64	1.24	15.87			29.94	0.24	0.09	0.84	0.57	0.65	0.31				

				Door op	enability					Rescu	ability
Fron		Drive	r side			Front pass	enger side		Fuel		
Oriver t pass	Door op	enability	Door I	ocked	Door op	enability	Door	locked	leakage after	Driver's	Front passenger'
Driver's seat/ Front passenger's s	First row (1st row)	Second row (2nd row)	collision	seat	s seat						
seat	One hand	One hand	None	None	One hand	One hand	None	None	None	Hand	Hand

Offset frontal collision test

				He	ead		Neck			Chest					Legs					Body de	formation	
P	assenger prot	ection perfo		Secondary	Injury load	Shearing load	Tensile load	Moment of extension	upper	Resultant	Chest displacem ent	Riding up of wrap belt		r load N]	Righ	t leg	Left	leg	Steering deforma			pedal tion[mm]
	Evaluation	Overall points	Score rate	collision	[HIC]	[kN]	[kN]	[Nm]	and steering wheel	[m/s²- 3ms]	[mm]	from pelvis	Right leg	Left leg	Upper TI	Lower TI	Upper TI	Lower TI	Rear displacem ent	Upper displacem ent	Rear displacem ent	Upper displacem ent
seat		7.90	65.8%		453.9	0.56	1.82	19.25	None		35.41		0.31	0.36	0.52	0.29	0.40	0.36	0	86	161	0
passeng er's seat	Level3	8.67	72.3%	None			1.84				48.67	None	0.21	0.19								

				Door op	enability					Rescu	ability
Real		Drive	r side			Front pass	enger side		Fuel		
Driver Rear pass	Door op	enability	Door I	ocked	Door op	enability	Door	locked	leakage after	Driver's	Front passenger'
's seat enger's	First row (1st row)	Second row (2nd row)	collision	seat	s seat						
seat	One hand※					One hand	None	None	None	Hand	Hand

Side collision test

				Head	Chest				Door op	enability			Resucuabil ity	
Pas	senger prote	ction perfo	rmance		displacem ent	Abdomen load	Pubis load		Front pass	enger side		Fuel leakage		Vehicle turned
								Door op	enability	Door	locked	after collision	Front passenger'	sideways after
	Evaluation	Overall points	Score rate	[HPC]	[mm]	[kN]	[kN]	First row (1st row)	Second row (2nd row)	First row (1st row)	Second row (2nd row)	collision	s seat	impact
Driver's seat	Level4	10.46	87.2%	573.3	21.55	1.79	3.72	One hand	One hand	None	None	None	Hand	None

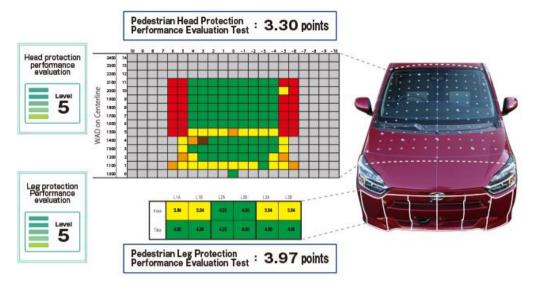
Neck Injury Protection Rear-end Collision Performance Test

	Passe	enger protection perform	nance	NIC		Upper	r neck		Lower neck					
	Evaluation	Overall points	Score rate	[m²/s²]	Shearing load [N]	Axial force load [N]	Horizontal axial moment (Flexion) [Nm]	Horizontal axial moment (Extension) [Nm]	Shearing load [N]	Axial force load [N]	Horizontal axial moment (Flexion) [Nm]	Horizontal axial moment (Extension) [Nm]		
Driver's seat	Level4	9.42	78.6%	17.9	9.4	200.4	8.7	14.7	112.4	118.4	1.4	3.7		
Front passeng er's sea	1	1	1	1	1	1	1	1	1	1	1	1		

^{*}Door was able to open by releasing inner-door handle latch,but was not able to open by releasingouter-door handle latch.

*Since the seat belt of the rear seat dummy was deflected from shoulder to upper arm due to the impact of the collision, it might be resulted in the higher chest injury value (scored based on the length of chest displacement).

Pedestrian Protection (Head Protection Performance Test / Leg Protection Performance Test)



PSBR

	Equipmen	t Condition							Det	tails						
Evaluat		t Condition			Front	passenger's	s seat					Rear	passenger's	seat		
Evaluat	Front	Rear passenger	Α	Auditory aları	m		Visual	alarm		A	uditory aları	m		Visual	alarm	
	s seat	s seat	Sound	Range	Score	Display	Position	Range	Score	Sound	Range	Score	Display	Position	Range	Score
Leve	2 0	-	0	В	40	0	Α	Α	10	-	1	-	-	1	1	- 1

Rear passenger's Seat Belt Usability Evaluation Test

Radar	abaut		Seat belt accessibility		Insertabilit	Seat belt wearing	comfortability [N]		Rear seat
Nauar	Chart		[mm]	Buckle	y of tongue	50mm position	25mm position		
Front passenger seat side	Driver's seat side		Design standard position Forward most seat position	on	into buckle	Design standard position Forward most seat position	Design standard position Forward most seat position	Center seat	Remarks
According	According	2nd row [Driver's seat side]	Ţ	ļ	ļ	Ţ	Ţ	_	
Contorability	Confertability	2nd row [Front passeng er side]	212	b	f&g	7.4	1.5		

Installation Conditions Of Safety Devices

ABS	Provided
Air bag	Driver's seat:Provided / Front passenger seat:Provided
Side air bag	Not provided
Side curtain Air bag	Not provided
Stability Contorol System	Provided
Damage Mitigation Brake System	Provided
Seat Type	Driver's seat:Passive seat Front passenger seat:Passive seat
Seatbelt pretensioner	First row:Driver's seat:Provided/Front passenger seat:Provided Second row:Driver's side:Not provided/Front passenger side:Not provided
Seat belt force (load) limiter	First row:Driver's seat:Provided/Front passenger seat:Provided Second row:Driver's side:Not provided/Front passenger side:Not provided
Seatbelt Reminder	Front passenger seat:Provided Rear passenger seat:Not provided

X1 [O] indicates that the vehicle has equipment with proper functions. [-] indicates that the vehicle does not have such equipment.

X2 In the "Range" column, "A" means driver's seat only, "B" means driver's seat and the passenger's seat concerned, and "C" means the passenger's seat concerned only,

X3 In the "Position" column, "A" means in front of the driver's seat, "B" means in front of the front passenger's seat. "C" means the center console area, "D" means in front of the rear seat on the window side, "E" means close to the center area of the rear seat, "F" means near the central ceiling area, "G" means room mirror part, "H" means Indicator area, and "Z" refers to other area.