

How safe is your car?
2005



Folksam[®]
Motståndskraft!

Choose the right car!

In a crash, the safety level of the car is very often crucial for the outcome of the accident. The risk is more than ten times as great in the least safe cars compared with the most safe. More modern cars usually have a considerably higher safety standard and therefore fewer injured persons. A new small car can therefore be as safe or more safe than an old midsize car, although different makes and models differ greatly.

Which ranking list should I use?

There are two lists in this report based on:

1. Real-life accidents (Folksam)

Folksam's list is based on data from real-life accidents with collisions from all directions. It describes the risk for disability or fatal injuries.

2. Crash tests

- front and side impact (EuroNCAP)
- rear-end collision (Folksam/Swedish National Road Administration and IIWPG).

In the first place, a car should be chosen according to results based on real-life accidents (1) although newer or less common models are most often not included. We therefore recommend in the second place to examine crash test results (2).

EuroNCAP has still not yet started crash tests that show the car's protective features in the event of a rear-end collision when many whiplash injuries occur. We therefore report tests from Folksam/ National Road Administration and IIWPG that show the protective capacity of cars against whiplash injury to supplement the EuroNCAP-list.

Read the whole list on the next page

Safe and environmentally friendly

It's now possible to find safe cars that also place less of a burden on the environment. If you would like to see a list of cars that have a safety standard and comply with Folksam's environmental requirements, see www.folksam.se or order the brochure "Säkert och hållbart" (only swedish version).

Let the children travel rear facing

There is a five times greater risk of small children being killed or injured if they travel in forward-facing seats instead of rear-facing. Since a small child's head is large and heavy in relation to its body, and its neck muscles are not so strong, the neck and head suffer most injuries in violent collisions. The child should therefore sit rear-facing as long as possible, at least up to the age of four, but the longer the better.

The best place for a rear-facing child is in the front seat. A rear-facing child seat in the front seat gives the child better leg space than if it is fitted in the back seat.

If the car is equipped with an air bag for the front passenger seat, this must be disconnected if a person who is shorter than 140 cm is to sit in this seat. The airbag is adapted for adults and can kill or seriously injure a child. Very few cars are delivered today without an airbag in the passenger seat. It is best to let an approved garage disconnect the air bag.

What is important when choosing a child car seat?

Test the child seat in the car and let the child try out the seat before you buy it. Child restraints do not always fit all car models nor all seats. An infant seat should have some form of impact-absorbing material, for instance frigo-lite between the covering and the plastic shell. Choose a rear-facing child car seat that is approved for rear-facing use up to 25 kg, at least in the front seat. Due to the high risk of injury in side

impacts, it is important to purchase an infant seat and a rear-facing child seat with high sides preferably with in-built side impact reinforcement. When the child reaches the age of 4 or 5, it can start to travel forward-facing. There is no great difference in terms of safety between a booster cushion and a seat with a backrest. Since the seat belt systems in the car are designed for adult passengers, the child needs special protective equipment up to the age of about 10 to 12. It is first then that the child is old enough to use the car's ordinary seat belt.

This is how much the risk of injury is reduced (compared with travelling without using a seat belt)

rear-facing child car seat	90–95%
booster cushion/seat with a backrest	50–60%
only seat belt (adult)	50%

You are always welcome to contact us at Folksam. We have local branches throughout Sweden.

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You can find more information about road safety on www.folksam.se

Results from crash tests

Superminis	Anti-skid system	Whiplash protection	EuroNCAP
Audi A2 00-	Green	Green	★★★★★
Audi TT 99-	Green	Green	★★★★★
Citroen C2 03-	Green	Red	★★★★★
Citroen C3 02-	Green	Red	★★★★★
Daewoo Matiz 99-	Red	Green	★★★★
Fiat Punto 93-98	Red	Green	★★★
Fiat Punto 99-	Red	Red	★★★★★
Ford Ka 97-	Red	Red	★★★★
Ford Fiesta 02-	Green	Green	★★★★★
Ford Fusion 03-	Green	Red	★★★★★
Honda Jazz 02-	Red	Green	★★★★★
Honda Logo 99-00	Red	Green	★★★
Honda S2000 99-	Red	Green	★★★★★
Hyundai Getz 03-	Red	Green	★★★★★
Mazda 2 03-	Red	Red	★★★★★
Mazda MX-5 98-	Red	Green	★★★★★
MG TF 03-	Red	Red	★★★★★
Mini Cooper/One 01-	Green	Green	★★★★★
Nissan Micra 02-	Red	Green	★★★★★
Opel Corsa 01-	Green	Green	★★★★★
Opel Tigra 05-	Green	Green	★★★★★
Peugeot 206 98-	Green	Red	★★★★★
Renault Clio 99-	Red	Green	★★★★★
Renault Modus 04-	Green	Green	★★★★★
Rover 25 00-	Red	Green	★★★★
Seat Ibiza 03-	Green	Red	★★★★★
Skoda Fabia 00-	Green	Red	★★★★★
Smart MCC 99-	Green	Green	★★★
Toyota Yaris 99-	Red	Green	★★★★★
Volkswagen Lupo 99-	Green	Red	★★★★★
Volkswagen Polo 02-	Green	Red	★★★★★

Anti-skid system
 Green Yes, standard or optional extra
 Red No

Small family cars	Anti-skid system	Whiplash protection	EuroNCAP
Alfa Romeo 147 00-	Green	Red	★★★★
Audi A3 03-	Green	Red	★★★★★
BMW 1-serien 04-	Green	Red	★★★★★
BMW Z4 03-	Green	Green	★★★★★
Chrysler PT Cruiser 00-	Red	Green	★★★
Citroen C4 04-	Green	Red	★★★★★
Citroen Xsara 98-	Green	Green	★★★
Daewoo Lanos 98-00	Red	Green	★★★
Honda Civic 01-	Red	Red	★★★★★
Mazda Premacy 99-	Red	Green	★★★
Mercedes A-klass 97-03	Green	Green	★★★★★
Mercedes SLK-klass 02-	Green	Green	★★★★★
Mitsubishi Space Star 98-	Green	Red	★★★
Nissan Almera 00-	Green	Green	★★★★★
Nissan Almera Tino 01-	Green	Green	★★★★★
Opel Astra 04-	Green	Green	★★★★★
Opel Meriva 03-	Green	Green	★★★★★
Peugeot 307 01-	Green	Red	★★★★★
Renault Kangoo 98-	Red	Green	★★★
Renault Mégane 03-	Green	Red	★★★★★
Seat Altea 04-	Green	Green	★★★★★
Toyota Corolla 02-	Green	Green	★★★★★
Volkswagen Beetle 99-	Green	Green	★★★★★
Volkswagen Golf 04-	Green	Green	★★★★★

Whiplash protection
 Green Complies with Folksam's requirements
 Red Does not comply with Folksam's requirements
 Grey Not tested

Folksam recommends cars that have at least four stars in EuroNCAP, comply with Folksam's whiplash requirements and are equipped with anti-skid systems. The safety level of a car in EuroNCAP can only be compared within its own size category.

Crash test results

The above list consists of models crash-tested by EuroNCAP. It is stated for each of these models which have anti-skid systems and which comply with Folksam's whiplash requirements. The requirement for approved whiplash protection is that the car seat shows a better than average result in Folksam's/the National Road Administration's tests or has been assessed as "acceptable" or "good" in IIWPG's tests.

	Anti-skid system	Whiplash protection	EuroNCAP
Large family cars			
Audi A4 01–	■	■	★★★★★
BMW 3-serien 98–05	■	■	★★★★★
Citroen C5 01–03	■	■	★★★★★
Citroen C5 (facelift) 04–	■	■	★★★★★
Citroen Xsara Picasso 00–	■	■	★★★★★
Fiat Doblò Panorama 02–	■	■	★★★★
Ford Focus C-Max 03–	■	■	★★★★★
Ford Focus II 04–	■	■	★★★★★
Honda Accord 03–	■	■	★★★★★
Jaguar X-Type 01–	■	■	★★★★★
Mazda 6 02–	■	■	★★★★★
Mercedes C-Klass 01–	■	■	★★★★★
Nissan Primera 02–	■	■	★★★★★
Opel Vectra 02–	■	■	★★★★★
Peugeot 407 04–	■	■	★★★★★
Renault Laguna 01–	■	■	★★★★★
SAAB 9-3 03–	■	■	★★★★★
Skoda Octavia II 04–	■	■	★★★★★
Subaru Legacy/Outback 99–	■	■	★★★★★
Toyota Avensis 03–	■	■	★★★★★
Toyota Prius 04–	■	■	★★★★★
Volkswagen Passat 01–	■	■	★★★★★
Volvo S40 04–	■	■	★★★★★
Volvo V50 04–	■	■	★★★★★
Volvo S60 01–	■	■	★★★★★

	Anti-skid system	Whiplash protection	EuroNCAP
Executive cars			
Audi A6 Ny 04–	■	■	★★★★★
BMW 5-serien Ny 03–	■	■	★★★★★
Ford Mondeo 01–	■	■	★★★★★
Lexus GS 300 05–	■	■	★★★★★
Mercedes E-Klass 98–02	■	■	★★★★★
Mercedes E-Klass 02–	■	■	★★★★★
Mercedes Vaneo 02–	■	■	★★★★★
Opel Signum 03–	■	■	★★★★★
Peugeot 607 00–	■	■	★★★★★
Rover 75 00–	■	■	★★★★★
SAAB 9-5 Sedan 98–	■	■	★★★★★
Skoda Superb 02–	■	■	★★★★★
Volvo S80 98–	■	■	★★★★★
Toyota Camry 97–02	■	■	★★★★★

Anti-skid system

■ Yes, standard or optional extra
 ■ No

	Anti-skid system	Whiplash protection	EuroNCAP
Small MPVs			
Honda Stream 01–03	■	■	★★★★★
Opel Zafira 99–	■	■	★★★★★
Renault Grand Scenic 03–	■	■	★★★★★
Toyota Corolla Verso Ny 04–	■	■	★★★★★
Volkswagen Touran 03–	■	■	★★★★★

	Anti-skid system	Whiplash protection	EuroNCAP
Large MPVs			
Citroen C8 02–	■	■	★★★★★
Fiat Ulysse 02–	■	■	★★★★★
Hyundai Trajet 00–	■	■	★★★★★
Kia Carnival 01–	■	■	★★★★
Mitsubishi Space Wagon 99–01	■	■	★★★★
Nissan Serena 99–01	■	■	★★★★
Opel Sintra 98–99	■	■	★★★★
Peugeot 806 97–02	■	■	★★★★
Peugeot 807 02–	■	■	★★★★★
Renault Espace 03–	■	■	★★★★★
Toyota Picnic 97–00	■	■	★★★★★
Toyota Previa 00–	■	■	★★★★★

	Anti-skid system	Whiplash protection	EuroNCAP
Small off-rovers			
Honda CR-V 02–	■	■	★★★★★
Land Rover Freelander 98–	■	■	★★★★★
Mitsubishi Pajero Pinin 00–	■	■	★★★★
Nissan X-Trail 01–	■	■	★★★★★
Suzuki Grand Vitara 99–	■	■	★★★★★

	Anti-skid system	Whiplash protection	EuroNCAP
Large off-rovers			
BMW X5 00–	■	■	★★★★★
Hyundai Santa Fe 01–	■	■	★★★★★
Jeep Cherokee 01–	■	■	★★★★★
Kia Sorento 02–	■	■	★★★★★
Land Rover Range Rover 02–	■	■	★★★★★
Mercedes M-Klass 98–	■	■	★★★★★
Opel Frontera 98–04	■	■	★★★★★
Suzuki Grand Vitara XL7 99–	■	■	★★★★★
Volkswagen Touareg 03–	■	■	★★★★★
Volvo XC90 02–	■	■	★★★★★

Whiplash protection

■ Complies with Folksam's requirements
 ■ Does not comply with Folksam's requirements
 ■ Not tested

