Tesla Model 3

REAR-WHEEL DRIVE ELECTRIC RWD AUTOMATIC

2024 ★★★★★ 98%

10.0 /10
Clean Air Index

9.7 /10
Energy Efficiency Index

9.8 /10
Greenhouse Gas Index

10.0 /10 Clean Air Tests

	Laboratory Test	NMHC	NO_x	NH_3	CO	PN
10.0/10	Cold Test	●	●	●	●	●
10.0/10	Warm Test	●	●	●	●	●
10.0/10	Highway	●	●	●	●	●
10.0/10	Cold Ambient Test	●	●	●	●	●
	Road Test					
10.0/10	On-Road Drive	●	●	●	●	●
5.0/5	On-Road Short Trip	●	●	●	●	●
8.0/8	On-Road Heavy Load	●	●	●	●	●
5.0/5	On-Road Light Load	●	●	●	●	●
2.0/2	Congestion	●	●	●	●	●

● n.a. ● good ● adequate ● marginal ● weak ● poor

Comments

With no tailpipe emissions, the Tesla naturally scores the full 10 points in the Clean Air part of the assessment.

9.7 /10 Energy Efficiency Tests

	Laboratory Test	Energy		
10.0/10	Cold Test		→	**15.2** kWh/100 km
10.0/10	Warm Test		→	**14.8** kWh/100 km
9.9/10	Highway		→	**20.8** kWh/100 km
9.0/10	Cold Ambient Test		→	**26.9** kWh/100 km

	Consumption	Driving Range
Average	**16.9** kWh/100 km	**409** km
Worst-case	**26.9** kWh/100 km	**251** km

n.a. good adequate marginal weak poor

Comments

The new Model 3 consumption values in the standard Cold and Warm Lab Tests – 15.2 and 14.8 kWh/100 km, respectively – are among the lowest results Green NCAP has ever recorded. The same is true for the 26.9 kWh/100 km measured in the -7°C Cold Ambient Test, where the car managed to keep the electricity demand low despite the quick cabin heat-up and provision of high thermal comfort. But the new Model 3 has even more to offer – the lowest On-Road Drive consumption with 14.2 kWh/100 km (same as the supermini Dacia Spring tested in 2022) and a new Highway Test record of 20.8 kWh/100 km.

9.8 /10 Greenhouse Gases Tests

	Greenhouse gases	CO_2	N_2O	CH_4
10.0/10	Cold Test	●	●	●
10.0/10	Warm Test	●	●	●
10.0/10	Highway	●	●	●
9.5/10	Cold Ambient Test	●	●	●

n.a. good adequate marginal weak poor

Comments

The Greenhouse Gas Index is based on a Well-to-Wheel+ approach, meaning that the GHG emissions related to the supply of energy are added to those of the tailpipe. Following this approach, the estimated GHG emissions of the fully electric Model 3 originate only from the upstream processes of electricity supply – only ca. 43 g CO_2 eq./km in the standard Lab Test and reaching 76 g CO_2 eq./km in the Cold Ambient Test. Thanks to the low energy consumption of the vehicle and the relatively low CO_2 emissions of European electricity production, the Model 3 scores a high 9.8/10 in this part of the assessment.

Our Verdict

In 2022 Green NCAP tested a Tesla Model 3 for the first time and the vehicle set new standards for energy efficiency. Today, the result of the new Model 3 are even more impressive. Tested here is the rear wheel drive version. Its mass of 1,763 kg doesn't make it a light-weight, but the efficient powertrain in combination with the extremely optimised aerodynamics helps it not only keep its image as one of the most efficient electric vehicles without any compromise on comfort, but to set a new record value once again – only 20.8 kWh/100 km in the BAB130 Highway Test. Green NCAP confirmed a usable battery capacity of 60 kWh, which allows the small Tesla to go for 324 km of high dynamic high speed Highway driving. The mixed driving type real-world On-Road Drive was performed on a dry road in sunny weather with a favourable temperature of 20°C. Under such conditions, the Model 3 recorded a consumption of only 14.2 kWh/100 km, corresponding to a range of 475 km. The short Urban Trip needed just 12.4 kWh/100 km and could be repeated for 547 km in total. In the Cold Ambient Test at -7°C, not only is the low consumption figure impressive, but also the fact that the thermal management system reached 18°C at the front passenger's headrest in only 3 minutes, clearly not sacrificing comfort to increase driving range.
The new Model 3 again is a reason for Tesla engineers to be proud of their achievement. It receives an Average Score of 98% and collects 5 Green stars.

Disclaimer

Specification

Tested Car
LRW3E7FS9RC20xxxx

Publication Date	Vehicle Class	Tyres	Emissions Class
12 2024	Large Family Car	235/45R18	AX

Mass	Engine Size	System Power/Torque	Declared CO_2
1,763 kg	n.a.	208 kW/350 Nm	n.a.

Declared Battery Capacity	Declared Driving Range	Declared Consumption
60.0 kWh	Overall 513 km City 652 km	13.2 kWh/100 km

Heating Concept
Waste heat & Heat pump