

Tesla Model 3

REAR-WHEEL DRIVE ELECTRIC RWD AUTOMATIC

2024



Clean Air Index

9.7

Energy Efficiency Greenhouse Gas Index

9.8

Index



	Laboratory Test	NMHC	NO _x	NH ₃	СО	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						













Comments

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

9.7

Energy Efficiency Tests

	Laboratory Test	Energy			
10.0 /10	Cold Test		\rightarrow	15.2 kWh/100 km	
10.0 /10	Warm Test		\rightarrow	14.8 kWh/100 km	
9.9/10	Highway		\rightarrow	20.8 kWh/100 km	
9.0/10	Cold Ambient Test		\rightarrow	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	













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.

	Greenhouse gases	CO ₂	N ₂ O	CH₄	
10.0 /10	Cold Test				
10.0 /10	Warm Test				
10.0 /10	Highway				
9.5 /10	Cold Ambient Test				













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 CO₂ eq./km in the standard Lab Test and reaching 76 g CO₂ eq./km in the Cold Ambient Test. Thanks to the low energy consumption of the vehicle and the relatively low CO₂ 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 realworld 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 2

Specification

Tested Car

Publication Date
12 2024

Vehicle Class arge Family Ca

System Power/Torque

Emissions Class

Mass 1.763 kg

Engine Size

208 kW/350 Nm

Tvres

Declared CO₂

Declared Battery Capacity 60.0 kWh Overall 513 km
City 652 km

Declared Consumption 13.2 kWh/100 km

Heating Concept
Waste heat & Heat pump



Think before you print