



2022

Genesis GV70

2.5 TGD I petrol AWD automatic



3.4 
/10

Clean Air
Index

0.7 
/10

Energy Efficiency
Index

0.0 
/10

Greenhouse Gas
Index



Laboratory Test

NMHC

NO_x

NH₃

CO

PN

3.2/10 Cold Test



6.5/10 Warm Test



0.0/10 Highway



Cold Ambient Test

Does not qualify for additional robustness testing



Road Test

5.1/10 On-Road Drive



0.9/5 On-Road Short Trip



On-Road Heavy Load

Does not qualify for additional robustness testing

On-Road Light Load

Does not qualify for additional robustness testing

Congestion

Does not qualify for additional robustness testing



n.a.



good



adequate



marginal



weak



poor

Comments

The Genesis GV70 experienced difficulties with NH₃ control in the WLTC+ test with cold engine start. In the same test, NO_x emissions increased, leading to an even lower score. In general, the vehicle produces a number of particles close to the upper rating thresholds and scores poorly in terms of particle control. In the motorway test, the Genesis fails to control CO emissions and the whole test result is set to zero due to gross exceedance of the allowed CO output.

Energy Efficiency Tests



Laboratory Test

Energy

0.6/10 Cold Test



1.6/10 Warm Test



0.0/10 Highway



Cold Ambient Test

Does not qualify for additional robustness testing

Consumption

Driving Range

Average

10.1 l/100 km

657 km

Worst-case

11.4 l/100 km

582 km



n.a.



good



adequate



marginal



weak



poor

Comments

The Genesis GV70 is a heavy petrol SUV and this is strongly reflected in its consumption values. With 9.9 l/100 km needed for the cold test and 11.3 l/100 km on the motorway, this approximately 2 ton vehicle does not even collect 1 point.



Greenhouse gases

CO₂

N₂O

CH₄

0.0/10 Cold Test



0.0/10 Warm Test



0.0/10 Highway



Cold Ambient Test

Does not qualify for additional robustness testing



n.a.



good



adequate



marginal



weak



poor

Comments

Due to the very high gasoline consumption and the addition of the upstream greenhouse gas emissions for the production and supply of the fuel, the car does not manage to score any points in the greenhouse gas index. At the WLTC+ cold test, 58 g/km CO₂-equivalent coming from the upstream processes are added to the measured 217 g/km CO₂ from the tailpipe. Considering the small amount of other climate damaging gases from the tailpipe (N₂O and CH₄), the total number appears to be 277 g CO₂-eq/km, which is fairly high.

Our Verdict

The Genesis GV70 is a compact luxury crossover and the brand's second SUV model, launched in September 2021. It is tested here with the 2.5 liter turbocharged engine, coupled to a gasoline particulate filter (GPF). Unfortunately, the WLTP figure is already a thirsty 9.7 liters/100 km. In our test we reached 9.9 liters, reflecting poor fuel economy. The car scores well in the area of laughing gas (N₂O) and methane (CH₄), but its high CO₂ emissions lead to no points in the greenhouse gas index. Pollutant emissions show good results for CO under low engine load only, acceptable for NO_x, but particulate number just enough to meet Euro 6d standards although the vehicle is equipped with GPF. An improvement of CO and NH₃ 'ammonia', especially under motorway conditions, would increase the score in the Clean Air Index. In terms of character, the Korean is a full-bodied cruiser of the old breed – in the positive sense regarding price, equipment and safety (5 stars in Euro NCAP's safety assessment). In Green NCAP's environmental assessment, however, the vehicle receives only one out of the five possible stars.

Disclaimer

Publication Date 06 2022	Tested Car KMTMA81BDNU01xxxx	Tyres 235/55R19	Emissions Class Euro 6d AP
Mass 1,955 kg	Engine Size 2,497 cc	Power/Torque 224 kW/422 Nm	Declared CO ₂ 220 g/km
Declared Battery Capacity n.a.	Declared Driving Range n.a.	Declared Consumption 9.7 l/100km	



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