Hyundai Sonata

Level B: Body with doors, Crash
Hyundai Sonata
2009 to 2015

General information

Vehicle Segment D
Vehicle Dimensions
Length 4.82 m
Wheelbase 2.79 m
Width 1.83 m
Contact Area 4.353 m²

Height 1.47 m

Material Mix BiW incl. doors/closures

42.5%
37.9%
13.1%
2.6%
1.8%

Deep-drawn steel
High-strength steel (HSS)
Advanced high-strength steel (AHSS)
Ultra-high-strength steel (UHSS)
Press-hardened steel (PHS)

Weights / Parts

BiW weight incl. doors/closures 389.2 kg
BiW weight 313.3 kg
Total number of parts: 466
Windscreen 23.8 kg
Other (Paint, Coating, Damping) 8.8 kg

TEC|BENCH – THE VIRTUAL BENCHMARKING PROCESS

TECOSIM has been using TEC|BENCH for over ten years to provide precise virtual mapping, design and modifications for individual module structures or complete vehicle structures based on a digital reconstruction of the original component or vehicle. The virtual benchmarking process delivers valuable information about the strengths and weaknesses of a reference product, uniting the key engineering expertise areas of testing, benchmarking, scanning, reverse engineering and simulation. TECOSIM has completed more than 40 projects with TEC|BENCH to date with virtual benchmarking becoming established worldwide beyond the leading market of Germany, especially in Asia.

TECOSIM COMPANY PROFILE

TECOSIM is a leading development partner in computer-aided engineering (CAE) on the global market with twelve locations in five countries. This specialist in numerical calculation and simulation completes challenging tasks in system simulation, structure simulation, fluid dynamics and multi-body system simulation with the aid of its 440 employees worldwide.

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