2005 Ford Escape Hybrid Electric Vehicle

VEHICLE SPECIFICATIONS

WEIGHTS
Design Curb Weight: 3627 lbs
Delivered Curb Weight: 3618 lbs
Distribution F/R: 58/42 %
GVWR: 4680 lbs
GAWR F/R: 2440/2440 lbs
Payload: 1062 lbs
Performance Goal: 400 lbs

DIMENSIONS
Wheelbase: 103.2 inches
Track F/R: 61.1/60.2 inches
Length: 174.5 inches
Width: 71.4 inches
Height: 69.5 inches
Ground Clearance: 7.8 inches
Performance Goal: 5.0 inches

TIRES
Tire Mfg: Continental
Tire Model: EcoPlus
Tire Size: P235/70R16
Tire Pressure F/R: 35/35 psi
Spare Installed: Yes

BATTERY
Manufacturer: Sanyo Electric Co
Type: Nickel Metal Hydride (NiMH)
Number of Cells: 250 Cylindrical
Cell Voltage: 1.32 VDC
Nominal Cell Voltage: 330 VDC
Nominal Pack Capacity: 5.5 Ah
Electric Motor: 70 kW

VALUES IN RED INDICATE THE PERFORMANCE GOAL WAS NOT MET. ALL POWER AND ENERGY VALUES ARE DC UNLESS OTHERWISE SPECIFIED.

TEST NOTES:
1. Energy transfer meter
2. Vehicle not equipped with a battery only mode
3. Total battery discharge over SAE J1634 drive cycle
4. Value calculated based on fuel economy and fuel tank size
5. Air Conditioning on maximum with full blower

This vehicle meets all HEV America Minimum Requirements listed on back of this sheet
Values in red indicate the Performance Goal was not met. All Power and Energy Values are DC unless otherwise specified.
Values in blue indicate values that were estimated due to lack of sufficient data from the OEM.

PERFORMANCE STATISTICS

Acceleration 0-60 mph
At 100% SOC: 11.53 seconds
At 50% SOC: N/A
Performance Goal: 13.5 seconds

Maximum Speed
At 1/4 Mile: 79.7 mph
In 1 Mile: >100 mph
Performance goal: 70 mph in one mile

Driving Cycle Range w/o Accessories
Amp-Hours Out: 14.4 Ah
Cycle Fuel Economy: 31.7 mpg
Driving Range: 475 miles

Driving Cycle Range w/Accessories
Amp-Hours Out: 10.4 Ah
Cycle Fuel Economy: 24.7 mpg
Driving Range: 370 miles

Braking From 60 mph
Controlled Dry: 138.9 feet
Controlled Wet: 168.5 feet
Panic Wet: 164.0 feet

Gradeability (Calculated)
Maximum Speed @ 3%: 93.0 mph
Maximum Speed @ 6%: 88.4 mph
Maximum Grade: 36.8%
This vehicle meets the requirements of HEVAmerica vehicle Technical Specification (R1) as follows:

(1) Vehicles shall comply with Federal Motor Vehicle Safety Standards applicable on the date of manufacture and such compliance shall be certified by the manufacturer in accordance with 49 CFR 567. Suppliers shall provide a complete copy of Appendix A and Appendix B with their proposal, providing vehicle specifications and the method of compliance with each requirement of 49 CFR 571. If certification includes exemption, the exemption number issued by the National Highway Transportation Safety Administration (NHTSA), the date(s) of it’s publication in the Federal Register and the page number(s) of the Federal Register acknowledging issuance of the exemption shall be provided along with Appendix B. Exemptions for any reason other than non-applicability shall not be allowed.

(2) Suppliers shall supply Material Safety Data Sheets (MSDS) for all unique hazardous materials the vehicle is equipped with, including RESS batteries or capacitors, and auxiliary batteries.

(3) Suppliers shall provide recycling plans for batteries and other vehicle hazardous materials including how the plan has been implemented.

(4) All vehicles shall comply with the FCC requirements for unintentional emitted electromagnetic radiation, as identified in 47 CFR 15, Subpart B, “Unintentional Radiators.”

(5) Vehicles shall have a minimum payload of at least 400 pounds.

(6) For conversions, OEM GVWR shall not be increased. For conversion vehicles, Suppliers shall specify the OMs gross vehicle weight rating (GVWR).

(7) For conversions, OEM Gross Vehicle Axle Weight Ratings (GAWR) shall not be increased. Suppliers shall provide axle weights for the vehicle as delivered, and at full rated payload.

(8) Tires shall be subject to the following requirements:

- Tires provided with the vehicle shall be the standard tire offered by the HEV supplier for the vehicle being proposed.
- Tires shall correspond to the requirements of the placed in accordance with 49 CFR 571.109, 110, 119 and 120, as applicable.
- Standard tires shall not differ in size or weight from the standard.