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Intro to Engineering
Group 1

No.	Spec	Rationale	Verification Method
1	Car's max speed is 2.5 m/s (±0.1 m/s)	Customers prefer fast moving cars	Using a timer, measure the time it takes for car to move one meter at max speed
2	Car does not drift more than 10 cm per 1 meter of travel	Customers prefer cars that travel in straight lines in absence of obstacles	Set the car to move forward one meter along a marked straight line without obstacles. Using marks 10 cm perpendicularly away from the straight line, verify that the car is within the 10 cm marks after one meter of travel.
3	On/off switch should be accessible without tools or manipulation	Customers prefer cars with easy access to the on/off switch	Give car to unfamiliar operator, instruct them turn the car on, and observe to verify that they do not need to manipulate the car or need access to tools