



## The Fabric of Ford: Through Scratches, Snags and Splashes, Ford's Materials are Ready for the Long Haul

- Ford engineers scratch, snag and stretch all the different materials that go inside a vehicle to help ensure their durability and suitability to long-term customer use
- Fabrics that are used inside Ford vehicles are stained with everyday substances like hot coffee, soda and dirt to evaluate how well they can be cleaned afterward, testing their overall stain resistance
- A team of examiners smell various samples of materials used inside Ford vehicles and rank them to help the engineers achieve interiors with a perceptible but not disturbing odor

Throughout a vehicle's lifetime, it's inevitable that the materials inside a car show signs of wear and tear. Imagine the frequent sitting on car seats, leaning on arm rests, gripping the steering wheel and fiddling with the instruments. So what does Ford do to help make sure all vehicles are up to this challenge?

To help guarantee the durability of these fabrics, leathers and plastics, Ford engineers subject every material used inside Ford vehicles to a series of meticulous and unrelenting tests where they are stretched, scratched, snagged, sniffed and even splashed with the likes of grease, dirt and hot coffee, to see how they will stand up against the test of time.

These tests are done to help ensure it takes a lot more than a spilled cup of coffee, the graze of a sharp edge or any accidental scrapes and scuffs to break down these materials. Some of the unusual ordeals Ford materials need to go through include:

- The Five-Finger Scratch Test, which is used to scratch samples of different plastics to see how much abuse they can take
- The Soil and Cleanability Test, which splashes different substances on seat fabrics to evaluate how well they can be cleaned afterwards, testing their overall stain resistance
- The Resistance to Dye Transfer Test, which rubs materials of different colors (i.e. those dreaded new blue jeans, long-term destroyer of white leather sofas around the world) against the leather used for car seats to see if any stains are left behind
- The Mace Snagging Test, which spins seat fabrics on rotating rollers roughly 600 times while they're repeatedly struck by a spikey iron ball to test how strong they are

In addition, a team of examiners smell various samples of materials used inside Ford vehicles and rank them to help the engineers achieve interiors that are free of disturbing odors.

The meticulous nature of these tests is a testament to Ford's unwavering commitment to delivering quality vehicles that remain at their peak throughout the long cycle of their lives to customers and going the extra mile to ensure standards of comfort and durability are met.

Click on the links below to see these tests in action:

- SNIFF: A Story about Car Smells – <https://youtu.be/n9YnEEXhrJE>

- SNAG: A Story about Mighty Materials – <https://youtu.be/J9gyq9dGnUE>
- SPLASH: A Story about Surprise Spills – <https://youtu.be/i7DrgKeZaEY>

## About Ford Motor Company

Ford Motor Company is a global company based in Dearborn, Michigan. The company designs, manufactures, markets and services a full line of Ford cars, trucks, SUVs, electrified vehicles and Lincoln luxury vehicles, provides financial services through Ford Motor Credit Company and is pursuing leadership positions in electrification, autonomous vehicles and mobility solutions. Ford employs approximately 203,000 people worldwide. For more information regarding Ford, its products and Ford Motor Credit Company, please visit [www.corporate.ford.com](http://www.corporate.ford.com).