



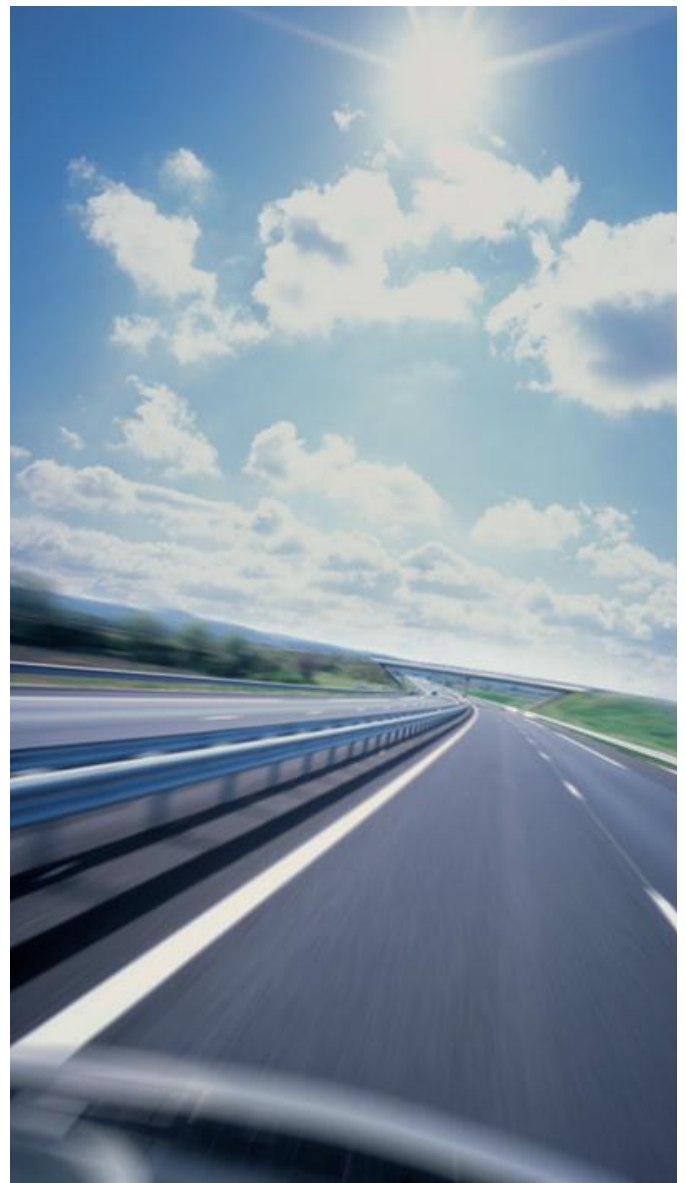
Automotive Engineering Services

How do your products stand up during endurance tests?

Exact requirements characterize the process of component, subassembly and vehicle part development, and series-production readiness can be a dot on the horizon. Product must conform to international standards and OEM automotive specific standards, safety and quality must enjoy absolute priority. TÜV Rheinland provides a one-stop service from planning to production with focus on the market requirements.

Automotive Material Testing

- Accelerated weathering: Xenon arc, QUV
- Scratch, Scuff, Abrasion, Rubbing test
- Flammability
- Tensile strength, Tear strength
- Compression and resilience test
- Hardness test (composite), Paint hardness
- Fogging
- Odor evaluation
- Volatile organic compounds (VOC)
- Chemical resistance
- Peeling test
- Paint adhesion
- Color, Gloss, and Grey scale evaluation
- Mold shrinkage
- Colorfastness test
- Fabric & Leather performance test
- Stretching and dimension stability
- Others such as density , etc.



Automotive Component & System Testing

- Thermal & Humidity cycle test
(small, medium & walk-in chambers)
- High temperature aging, High humidity aging
- Stiffness, Strength test
- Impact resistance
(pendulum, free fall, cold impact)
- Vibration durability (Sine & Random)
- Combined walk-in climatic & Vibration durability test
- Deflection measurement – under pushing or pulling load
- Mechanical cycle durability test, Repeated load durability test
- Dimensional measurement and functional inspection
- Part specific performance testing



Chemical Analysis

- Restricted substances Testing: ELV
(End of Life Vehicle), SVHC, SOC
- Aldehyde / Ketones / Formaldehyde emissions
- Volatile organic compounds (VOC)
- FTIR analysis of polymers and plastics

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