



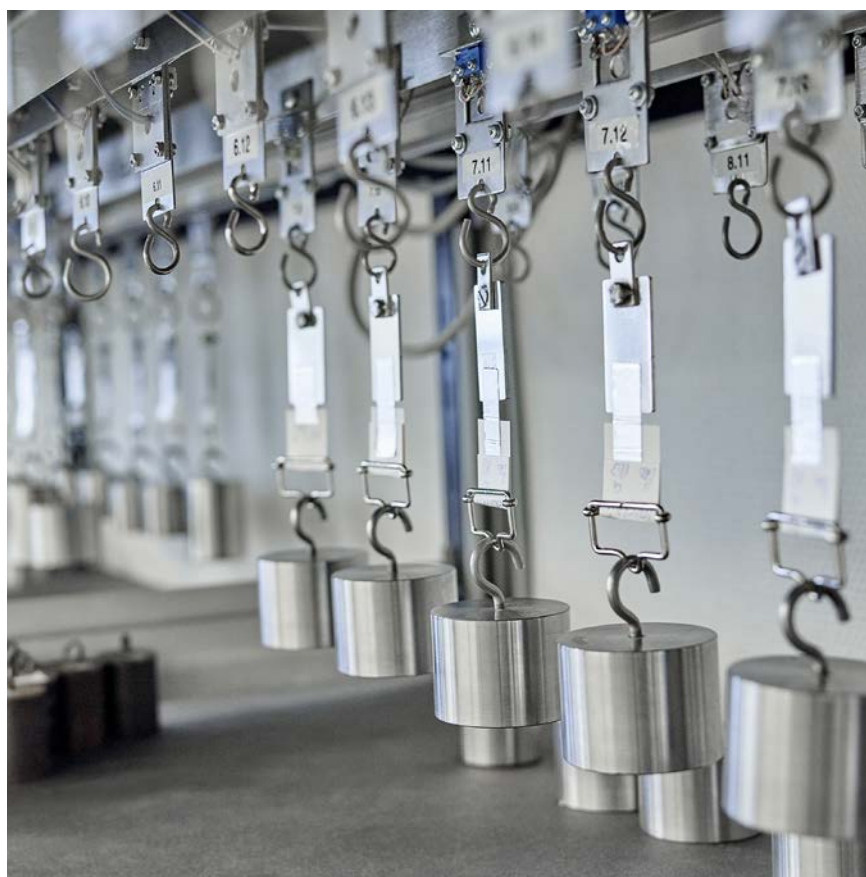
# WE BUILT OUR LAB TO YOUR SPECIFICATIONS

## Accredited In-House Testing for OEMs and Tier Suppliers

The automotive industry demands components capable of meeting very stringent quality standards. At tesa, we work closely with our customers to validate the quality, performance, and reliability of our technical adhesive solutions across entire value chain – from OEMs down to the smallest tier suppliers.

**Complimentary in-house testing to a wide range of OEM application specifications and requirements.**

Our lab, strategically located in Sparta, Michigan, offers a wide variety of testing services for OEMs and tier suppliers. Together with our global network of testing facilities in Europe and Asia, tesa's team of R&D application engineers provide customers with the expertise and resources needed to complete rigorous testing regimens accurately and on schedule.



## General Mechanical Tests

(most possible at different temperatures)

- Peel adhesion (90°, 180°, T-peel, floating roller)
- Shear resistance, static & dynamic
- Microshear resistance
- L-Jig, T-Block (pluck, pull)
- Tensile strength, elongation at break
- Tack (ball, loop)
- Thickness, density, compression, hardness
- Ball drop impact / slam impact
- Unwinding force
- Puncture resistance
- Bending (3-point)
- Bowed panel

## Special Application Tests

- Static peel resistance, repulsion resistance
- Scratch resistance (crockmeter)
- Abrasion (taber, needle, sandpaper)
- Flammability (FMVSS302)
- Noise damping
- VOC and odor test
- Fogging (refractometric, gravimetric)
- Power wash
- Water leakage/water column test
- Torque resistance
- Flagging
- Heat reflection
- Paint anchorage/cross-cut test
- Color determination/grey scale
- Gloss change
- Paint deformation/ghosting/residue removal
- Knife test
- Substrate surface energy
- Silicone contamination

## External Tests

(we can arrange for you)

- Florida/Arizona outdoor exposure test
- Dielectric breakdown, permittivity
- Stone chip test
- Salt spray test
- Formaldehyde emission
- Acoustic insulation tests
- Thermal conductivity
- Vibration tests

## Our In-House Testing Capabilities

LOW VOC

## Ageing/Storage

- Thermal ageing
- Condensation moisture humid storage
- Alternating climate cycling
- Cold storage
- Cold slam / cold shock
- Cataplasma / thermal shock
- Artificial weathering
- Chemical resistance

## Other Techniques

- Spray coating of OEM paint systems
- Plasma/Corona pre-treatment
- Wet-out, conformability, gap filling
- IR spectroscopy
- UV/VIS spectroscopy
- TGA
- DSC
- DMA, DMTA
- DART-MS
- NMR
- Electron microscopy (inkl. EDX)
- Surface roughness

\*all external labs with ISO 17025 certification and experienced with automotive testing

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