

Company Profile | ZwickRoell Authorized Partner Laboratory

UL International Germany GmbH
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Contact

Sales	Sales team
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Certifications

Accredited compliant to DIN EN ISO/IEC 17025
Accredited compliant to DIN EN ISO/IEC 9001
Various OEM approvals

Service Overview / Expertise

| Materials & Components

All types of plastics, elastomers and composites

| Industries

Automotive industry, plastic industry, cable industry

| Test Methods

Mechanical tests

Tensile test, high-speed tensile tests, flexure test with determination of the modulus of elasticity, Izod and Charpy impact flexure tests, penetration tests, hardness determination, tensile impact test, tear growth/adhesion/detachment tests, compression test, shear test, creep tensile test, residual compression deformation

Rheological test methods

Melt flow index (MVR, MFR, IMVR, IMFR), melt shear viscosity, solution viscosity of polycarbonate, oscillatory shear rheology (rotational rheometer), special rheological tests (capillary and rotational rheometers), PVT behavior

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Klaus Cierocki (Chairman)
Christine Dübler • Ping Bu Loke
Personally liable partner:
ZwickRoell Verwaltungsgesellschaft mbH, Ulm
Registration Office Ulm HRB 4361
VAT ID No.: DE147043343

Heat resistance

Vicat softening temperature, heat deflection temperature (HDT), ball pressure test

Electrical test methods

Dielectric measurement (ϵ_r / $\tan \delta$), electrostatic charging, electrical resistance (surface and volume resistance), dielectric strength, comparative tracking index (CTI), arc resistance test, electrolytic corrosion, inclined plane tracking (IPT), flammability tests (UL94 & UL746C, different variants), density determination (for foams), limiting oxygen index (LOI), tests with electrical ignition source (glow wire tests, HWI), needle flame test, ash content, car-specific electrical tests

Thermal aging

Hot-air aging without load, determination of the relative temperature index (RTI)

Weathering

Artificial weathering (xenon, UV fluorescence), special automotive tests (e.g., Kalahari test, Florida test)

Climate tests

Climate cycling tests, constant climate conditions, autoclave aging

Optical test methods

Color measurement (Delta E), gray scale determination, gloss level, haze, yellow index, spectroscopy (UV-VIS-NIR)

Thermal analysis methods

Thermomechanical analysis (TMA), dynamic differential scanning calorimetry (DSC, incl. modulated DSC), thermogravimetric analysis (TGA), torsion pendulum test

Chemical resistance tests

Environmental stress cracking test (ESC, bending strip), internal stresses (TnP test), Resistance to fuel/gasoline, media aging without load

Physical test methods

Thermal conductivity, density determination, water content, water absorption, shrinkage (incl. shrinkage plates), emissions tests (odor, fogging, formaldehyde, chamber test, thermal desorption)

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