

Intertek: Grand Rapids, MI

An overview of our laboratory capabilities

Intertek

Valued Quality. Delivered.



Intertek operates in more than 100 countries with over 30,000 employees. Across our network of laboratories, we maintain superior industry knowledge and expertise in testing and certifying products to virtually any standard. Our advanced operations increase efficiencies in your production cycle and speed your turnaround.

EMC Testing

- One 3m Anechoic Chamber
- Two Military Anechoic Chambers
- Reverb Chamber 100MHz to 18GHz
- Radiated Immunity 200V/m 10KHz to 40GHz
- Military/Aerospace: MIL-STD 461, RTCA DO 160
- RTCA DO 160F section 22 Lighting Induced Transient Susceptibility, Level 5
- Automotive: various OEM, SAE and EU standards, including radiated and conducted emissions and immunity, transients and ESD
- Commercial standards, CE Mark
- EMxpert Scan Tool for Radiated Emissions Diagnostics

Durability & Performance Testing

- Brake Hose Testing
- Custom Designed Test Fixturing and Machinery
- Fatigue Testing
- Fire Testing
- Multi-Axis Testing – 6DOF (to 10,000 Hz)
- Pressure Testing
- Prototype Designed Testing Programs
- Safety Glass, Safety Glazing Testing (ANSI Z26)
- SEM/EDS - Scanning Electron Microscopy / X-Ray Energy Dispersive Spectroscopy
- Shock 1/2 Sine, Sawtooth, Triangular (to 40G's, 11mS, to 100 G's, 6mS)
- Static and Electro-Mechanical Cycling
- Thermal Shock Testing
- Vibration Testing – Sine, Random, Shock (up to 6000 pound force, 1" p to p)

Accelerated Stress Testing

- Accelerated Reliability Testing
- FMVT® (Failure Mode Verification) Testing
- HALT/HASS/Step Stress
- Key Life Testing
- MEOST (Multi Environment Overstress Testing)

Complete Testing Solutions from a Single Source

- Intertek's Grand Rapids facility provides world-class Safety and Performance testing services utilizing state-of-the-art equipment.
- As experts in the industries of our clients, we provide complete quality and safety solutions to meet your specific testing needs.



Materials Testing

Intertek is an established, accredited, independent Materials Testing Laboratory. Possessing a wide range of laboratory equipment, chambers and set-ups, we test and evaluate products comprised of metals, polymers, elastomers, wood, fabric, coatings and more. Our diverse staff has serviced the automotive, aerospace, furniture, consumer

product and nuclear industries for more than 30 years. In combination with our Engineering and Performance Testing groups, the Materials Testing Laboratory helps make Intertek a single resource for comprehensive engineering and testing services, from project conception through completion.

Simulated Environmental Performance

- Acoustic Testing
- Brittleness (Dime Scrape)
- CASS Test
- Cleanliness/Sediment Test
- Cyclic Corrosion
- DMC (Twin Enclosed Carbon Arc)
- Electronics Stress Testing
- Explosion Test
- Gasoline / Water Immersion
- Humidity Testing
- Mandrel Bend Test
- Exposure Testing via Programmable Chambers (-70°C to 177°C, 10% to 98%RH, 2°C/min up to 30°C/min, up to 20'x9'x9')
- Safety Glass / Glazing
- Salt Spray
- Solar Radiation (Surface Temperature)
- Taber Abrasion
- Temperature/Altitude Testing
- Thermal Aging
- Vibration
- Weatherometer

Plastics, Textiles & Rubbers

- Aging
- Chemical Exposure
- Compression Deflection, Strength, Set
- Density
- Dimensional Stability
- Failure Analysis
- Falling Weight Impact
- Flammability
- Hardness – Rockwell, Shore
- Heat Deflection Temperature (HDT)
- Izod Impact
- Low Temperature Resistance (Brittleness)
- Ozone Resistance
- Scuff & Mar
- Stain & Solvent Resistance
- Temperature Deflection
- Thermal Cycling
- Thermal Expansion
- VOC Testing
- Weatherometer Exposure
- Xenon Arc Exposure

Lighting Photometrics Testing

AMECA (Automotive Manufacturer Equipment Compliance Agency) Scope of Accreditation:

- Backup Lamps
- Center High Mounted Stop Lamp
- Clearance Lamps
- Cornering Lamps
- Headlamps - Sealed Beam
- Headlamp Aiming Equipment
- Identification Lamps
- License Plate Lamps
- Parking Lamps
- Reflex Reflectors
- Side Marker Lamps
- Stop Signal Lamps
- Auxiliary Low Beam Lamps
- Driving Lamps
- Fog Lamps
- Spot Lamps
- High Mounted Stop & Turn Signal Lamps
- Warning Lamps
- School Bus Warning Lamps
- Tail Lamps
- Turn Signal Lamps

A2LA Scope of Accreditation:

- Forward Lighting Device
- Spectrophotometry
- Photometry of Retroreflective Materials
- Agricultural Machinery
- All-Terrain Vehicles
- Snowmobiles
- Reflex Testing: Signaling, Marking and Rear Lighting Devices
- Warning Lamps and Devices
- Construction and Industrial Machinery
- Motorcycles

Glass Testing

We conduct the following tests to ATPD 2352P and ANSI Z26 specifications.

- Luminous Stability
- Haze / Transmittance / Scatter
- Optical Deviation and Distortion
- Low/High Temperature / Humidity / Weathering
- Impact
- Penetration
- Abrasion Resistance
- Chemical Exposure
- Flammability

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