



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

SMITHERS  
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Akron, OH 44303-2088  
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MECHANICAL

Valid To: March 31, 2026

Certificate Number: 0363.02

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following types of tests on adhesives, sealants, plastics, polymers, natural rubber, latex and rubber products:

<u>Test:</u>	<u>Test Method(s):</u>
Tensile, Elongation, Modulus	ASTM D412 ASTM D378 ASTM D638 ISO 37 DIN 53504
Tear Resistance	ASTM D378 ASTM D624 ISO 34-1
Compression Set	ASTM D395 ISO 6505 ISO 815-1
Properties of Rubber in Compression	ASTM D575
Durometer Hardness, Shore A, D & M	ASTM D2240
IRHD	ASTM D1415 ISO 48 ISO 3387

Flex Fatigue

Dynamic Fatigue	ASTM D430 Method B
Crack Growth	ASTM D813
Cut Growth	ASTM D1052
Monsanto Flex Extension Cycling Fatigue	ASTM D4482
Adhesion Strength	ASTM D413 Machine Method ASTM D429 Methods A & B

(A2LA Cert. No. 0363.02) 05/15/2024

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**Test:**

Adhesion Between Steel Tire Cords and Rubber

Low Temperature Brittleness

Brittleness Point of Flexible Polymers

Low Temperature Retraction

Low Temperature Bend Test, Coated Fabrics

Stiffening at Low Temperatures, Gehman

**Test Method(s):**ASTM D2229-10 (Withdrawn 2023)  
ASTM D885-10A (Withdrawn 2023)ASTM D746  
ISO 812

ASTM D2137

ASTM D1329  
ISO 2921

ASTM D2136

ASTM D1053 Method A  
ISO 1432**Environmental Simulation**

High Temperature

Ozone Resistance

Dynamic Ozone Cracking in a Chamber

Air Oxygen Bomb

Fluid Aging

Salt Spray

Humidity

Flexural Properties

Specific Gravity/Density

ASTM D573  
ASTM D865  
ISO 188ASTM D518-99 (Withdrawn 2008)  
ASTM D1149 (Except Method A Procedure A2  
and Method B Procedure B3)  
ASTM D1171  
ISO 1431-1  
ISO 6722-1 (Section 5.19)  
ISO 7840 (Section 5.8)  
ISO 19642-2 (Sections 5.4.14 & 6.4.12)  
SAE J1128 (Section 6.8)  
SAE J1206

ASTM D3395-99 Method A (Withdrawn 2007)

ASTM D454  
ASTM D572ASTM D471  
ISO 1817ASTM B117  
ABNT NBR 6752

ASTM D1735

ASTM D790

ASTM D792  
ASTM D1475  
ASTM D297  
ISO 1183  
ISO 2781

<b><u>Test:</u></b>	<b><u>Test Method(s):</u></b>
Medical Glove Hole Detection	ASTM D5151
O-Ring Testing, Tensile	ASTM D1414 (Section 8)
Water Absorption of Plastics	ASTM D570
Dynamic Testing, Flexometer	ASTM D623 Method A
Abrasion Resistance (Rotary Drum)	ASTM D5963
Rubber Process Analyzer (RPA)	ASTM D5289 ASTM D6048 ASTM D6204 ASTM D6601 ASTM D7050 ASTM D7605 ASTM D8059
Tensile Green Strength of Unvulcanized Rubber	ASTM D6746 ASTM D3182
Mooney Viscosity	ASTM D1646
Rheometer (ODR)	ASTM D2084
Staining of Surfaces	ASTM D925
BFG Cut & Chip	MT 2051.01
Impact Resistance, Izod Pendulum	ASTM D256
Volume Resistivity	ASTM D991
Static and Kinetic Coefficients of Friction	ASTM D1894
DC Resistance or Conductance of Insulating Materials, Surface	ASTM D257
Heat and UV Light Discoloration of Light Colored Surfaces	ASTM D1148
Fluorescent UV Exposure of Plastics, QUV	ASTM D4329
Fluorescent Light Apparatus for UV Exposure	ASTM G154
Xenon Arc Light Apparatus for Exposure on Non-Metallic Materials	ASTM G155
Melt Flow Rates of Thermoplastics by Extrusion Plastometer	ASTM D1238 Method A
Abrasion Resistance by the Pico Abrader Method	ASTM D2228
Abrasion Resistance Coated Fabrics, Taber	ASTM D3389

<b><u>Test:</u></b>	<b><u>Test Method(s):</u></b>
Compressive Properties of Rigid Plastics	ASTM D695
Dielectric Strength, AC	ASTM D149
Compression Stress Relaxation	ASTM D6147 ISO 3384
Flammability	FMVSS 302 ASTM C1166 UL 94
Floating Roller Peel Resistance of Adhesives	ASTM D3167
Tensile Properties of Thin Plastic Films	ASTM D882
Tear Propagation Resistance of Plastic Film and Thin Sheeting	ASTM D1938
Resistance of Plastics to Chemical Reagents	ASTM D543 Method A
Conditioning of Plastics for Testing	ASTM D618
Rubbers – Standard Temperatures for Testing	ASTM D1349



# Accredited Laboratory

A2LA has accredited

**SMITHERS**

*Akron, OH*

for technical competence in the field of

**Mechanical Testing**

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 *General requirements for the competence of testing and calibration laboratories*. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communiqué dated April 2017).



Presented this 15<sup>th</sup> day of May 2024.

A blue ink signature of Trace McInturff, written in a cursive style.

Mr. Trace McInturff, Vice President, Accreditation Services  
For the Accreditation Council  
Certificate Number 0363.02  
Valid to March 31, 2026

*For the types of tests to which this accreditation applies, please refer to the laboratory's Mechanical Scope of Accreditation.*