



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

APPLIED TECHNICAL SERVICES, INC.
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CHEMICAL

Valid To: January 31, 2020

Certificate Number: 1888.02

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following chemical analyses on metals, non-metals, polymers, liquids, toys, children's products, and juvenile furniture:¹

<u>Test</u>	<u>Specification</u>
Optical Emissions Spectroscopy (Li, Be, B, C, N, Na, Mg, Al, Si, P, S, Ca, Ti, V, Cr, Mn, Fe, Co, Ni, Cu, Zn, Ga, As, Se, Sr, Nb, Mo, Zr, Cd, In, Sn, Sb, Te, Ce, Pb, Ta, W, Bi)	ASTM E415, E1086, E1251, E1507
Soluble Metals	ASTM F963-16 (Section 4.3.5.2 and Section 8.3)
Lead by Inductively Coupled Plasma (ICP)	ASTM E1613
Inductively Coupled Plasma (ICP) (Li, Be, B, Na, Mg, Al, Si, P, S, Cl, Ar, K, Ca, Sc, Ti, V, Cr, Mn, Fe, Co, Ni, Cu, Zn, Ga, Ge, As, Se, Br, Rb, Sr, Y, Zr, Nb, Mo, Ru, Rh, Pd, Ag, Cd, In, Sn, Sb, Te, I, Cs, Ba, La, Hf, Ta, W, Re, Os, Ir, Pt, Au, Hg, Tl, Pb, Bi, Ce, Pr, Nd, Sm, Eu, Gd, Tb, Dy, Ho, Er, Tm, Yb, Lu, Th, U, Pu)	ASTM E1479
Determining Lead Content in Substrates or Children's Toys	ASTM E1479 or E1613; ASTM F963-16 (Section 8.3 or ASTM E1645)
Surface Coating Materials – Soluble Test for Metals	ASTM F963-16 Section 4.3.5.1(2)
Toy Substrate Materials	ASTM F963-16 Section 4.3.5.2
Determining Total Lead in Children's Metal Products, including Children's Metal Jewelry	CPSC-CH-E1001-08
Determining Total Lead in Non-Metal Children's Products	CPSC-CH-E1002-08
Determining Total Lead in Paint and Other Similar Surface Coatings	16 CFR 1303 using CPSC-CH-E1003-09
Toy Safety: Migration of Certain Elements	EN-71: Part 3
Combustion (S, C, N, O, H)	ASTM E1019, E1447
Wet Chemistry	ASTM E53, D808, D512

Test

Specification

Analysis of Bisphenol A (BPA) by LC/MS/MS	ATS 367
DSC	ASTM D3418, E1356, E793, E794
DMA	ASTM D5023, D5026, D5418, D4065, E1640
TGA	ASTM E1131, E1641, E1868
TMA	ASTM E1545, E831
FTIR	ASTM E1252
Specific Gravity	ASTM D792 Method A; ISO 1183-1
Brookfield Viscometer	ASTM D2196
Ion Chromatography (IC)	ASTM D4327
Electrical Conductivity of Solutions	ASTM D1125
Flashpoint Testing	ASTM D3278
Capillary Viscometers	ASTM D445, D446
pH	ASTM E70
X-Ray Diffraction	ATS-962, ASTM D934
X-Ray Fluorescence (XRF) (Sb, Sn, Pd, Ag, Al, Mo, Nb, Zr, Bi, Pb, Se, W, Zn, Cu, Ni, Co, Fe, Mn, Cr, V, Ti)	ASTM E1476 (Section 7)
SEM/EDS	ASTM E1508
Standard Operating Procedures for Determining Phthalates (DnBP, DnHP, DnOP, BBP, DEHP, DIBP, DiDP, DINP)	CPSC-CH-C1001-09.3
XRF (Wave Length Dispersive)	ASTM E572, E1085, E1621, E2465
Organic Emissions of Non-Metallic Materials for Automobile (Marks Instrumentation)	VDA 278

¹ The Consumer Product Safety Improvement Act (CPSIA) requires that every children's product subject to a federal consumer product safety requirement be tested by a Consumer Product Safety Commission (CPSC) accepted laboratory for compliance with the applicable federal children's product safety requirements. Accreditation by A2LA does not infer acceptance by the CPSC. Please verify this organization's acceptance status by using the CPSC's searchable database, located at <http://www.cpsc.gov/cgi-bin/labsearch/>



Accredited Laboratory

A2LA has accredited

APPLIED TECHNICAL SERVICES, INC.

Marietta, GA

for technical competence in the field of

Chemical Testing

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005 *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 9th day of April 2018.

A handwritten signature in black ink, written over a horizontal line.

President and CEO
For the Accreditation Council
Certificate Number 1888.02
Valid to January 31, 2020

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