



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

WESTPAK, INC.
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San Diego, CA 92121
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MECHANICAL

Valid To: January 31, 2020

Certificate Number: 2870.02

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following types of Mechanical, Acoustical, and Vibration testing on customer products and package systems:

<u>Test</u>	<u>Test Method(s)</u>
<u>Transport Simulation Performance Testing</u>	
Distribution Testing	ASTM D4169, D7386
Non-simulation Integrity Performance Testing	ISTA 1A, 1B, 1C, 1D, 1E, 1F, 1G, 1H
Partial Simulation Performance Testing	ISTA 2A, 2B, 2C, 2D, 2E, 2F
General Simulation Performance Testing	ISTA 3A, 3B, 3E, 3F, 3J, 3K; 6-FEDEX-A, 6-FEDEX-B, ISTA 6 SAM'S CLUB
Packaged Products for Amazon	ISTA 6-Amazon.com-B, 6-Amazon.com Over Box (OB), 6-Amazon.com Ships in Own Container (SIOC)
Reusable Container Tests	ISTA 7B
Cold Chain Temperature Testing	ISTA 7D
Thermal Transport Packaging	ISTA 7E
<u>Vibration Testing</u>	
Loose Load Vibration	ASTM D999
Random Vibration	ASTM D4728, D7387; IEC 60601-1-11 (Clause 10.1), IEC 62093 (Clause 11.8); MIL-STD-810 514.6 (Procedures I and II only)
Sinusoidal Vibration	ASTM D3580; IEC 60068-2-6, IEC 60601-1-11 (Clause 10.1); ISO 60065 (Clause 12.1.2)
Horizontal Vibration Testing	ASTM D5112
<u>Shock Testing</u>	
Shock Testing	ASTM D3332, D5478, D6537; IEC 60068-2-27, IEC 60601-1-11 (Clause 10-1-3), IEC 62093 (Clause 11.9); MIL-STD-810 516.6 (Procedures I-VI only)

<u>Test</u>	<u>Test Method(s)</u>
<u>Shock Testing (Cont.)</u>	
Vibration Testing of Bulk Containers Used for Liquid Dangerous Goods	ASTM D7387
<u>Tensile Testing</u>	
Seal Strength Testing	ASTM F88
<u>Drop Testing</u>	
Bridge Impact Testing	ASTM D5265
Concentrated Impact Testing	ASTM D6344
Drop Testing	ASTM D5276; TAPPI T802, T801
Horizontal Impact	ASTM D880
Mechanical Handling of Unitized Loads	ASTM D6179
<u>Compression Testing</u>	
Compression Testing	ASTM D642, D4577
Slow Rate Penetration of Flexible Barrier Films	ASTM F1306
Compression Test of Containers	TAPPI T804
<u>Environmental Conditioning</u>	
Accelerated Aging	ASTM F1980
Altitude Testing	ASTM D6653; MIL-STD-810 500.5
Environmental Conditioning	ASTM D4332
Environmental Operating Conditions	IEC 60601-1-11 (Section 4.2.2)
Humidity Testing	IEC 61215 (Clause 10.12), IEC 61646 (Clause 10.12), IEC 61730-2 (Clause 52), IEC 62093 (Clause 11.12), IEC 62108 (Clause 10.8); MIL-STD-810 507.5; UL 1703 (Clause 36); ULC/ORD C1703 (Clause 5.18)
Temperature	MIL-STD-810 501.5, MIL-STD-810 502.5
Temperature Cycling Test	IEC 60950 (Clause 2.10.9), IEC 61215 (Clause 10.11), IEC 61646 (Clause 10.11), IEC 61730-2 (Clause 51), IEC 62093 (Clause 11.11), IEC 62108 (Clause 10.6); UL 1703 (Clause 35); ULC/ORD C1703 (Clause 5.17)
Temperature Shock	MIL-STD-810 503.5
Thermal Insulation Performance of Packages	ASTM D3103
Climatic Stressing of Parcels for Delivery	ASTM F2825
Freeze/Thaw Testing	MIL-STD-810 524



<u>Test</u>	<u>Test Method(s)</u>
<u>Medical Packaging Testing</u>	
Bubble Emission Testing	ASTM F2096
Burst Testing	ASTM F1140
Burst Testing Using Restraining Plates	ASTM F2054
Dye Penetration Testing	ASTM F1929; F3039
Visual Inspection of Seals for Flexible Packaging	ASTM F1886
<u>Mechanical Tests (Non-Solar)</u>	
Abrasion Resistance (Scuff Testing)	ASTM D5264
<u>Mullen Burst Testing</u>	
Burst Strength of Corrugated and Solid Fiberboard	TAPPI T810





Accredited Laboratory

A2LA has accredited

WESTPAK, INC.

San Diego, CA

for technical competence in the field of

Mechanical 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 15th day of May 2018.

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

President and CEO
For the Accreditation Council
Certificate Number 2870.02
Valid to January 31, 2020

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