

Table of Contents

Flexibility in the scope of accreditation.....	1
Shortlist of test methods	2
Category B	7
Test Methods in the Scope: compression tests, crush tests, and stacking tests	7
Test Methods in the Scope: vibration tests, shock tests, and bouncing tests	9
Test Methods in the Scope: horizontal impact tests	12
Test Methods in the Scope: drop tests	14
Test Methods in the Scope: climate and temperature test.....	17
Test Methods in the Scope: vacuum test.....	20
Category A.....	21
Other Test Methods.....	21

Flexibility in the scope of accreditation

By making the scope of accreditation more flexible, the testing laboratory is permitted to include test methods in the scope without having to seek prior approval from DAkkS or inform them. These test methods must be assignable to specific test areas that correspond to the test areas specified in the accreditation certificate (D-PL-11272-01-00) of the testing laboratory.

The VDZ GmbH has test methods in flexibility categories A and B, which are defined as follows:

Category A: the application of standardized or equivalent test methods with different output levels.

Category B: the free selection of standardized or equivalent test methods.

Shortlist of test methods

Shortlist of test methods

Test Method	Name	Issue Date
AFNOR - NF S 99-700	Solutions isothermes autonomes pour produits de santé - Methode de qualification des performances thermiques	2022-06
ASTM D3078	Standard Test Method for Determination of Leaks in Flexible Packaging by Bubble Emission	2002 (ra21)
ASTM D3332	Standard Test Methods for Mechanical-Shock Fragility of Products, Using Shock Machines	1999 (ra23)
ASTM D3575	Standard Test Methods for Flexible Cellular Materials Made From Olefin Polymers	2020
ASTM D4169	Standard Practice for Performance Testing of Shipping Containers and Systems	2023
ASTM D4332	Standard Practice for Conditioning Containers, Packages, or Packaging Components for Testing	2022
ASTM D4577	Standard Test Method for Compression Resistance of a Container Under Constant Load	2019 (ra23)
ASTM D4728	Standard Test Method for Random Vibration Testing of Shipping Containers	2017 (ra22)
ASTM D5265	Standard Test Method for Bridge Impact Testing	2023
ASTM D5276	Standard Test Method for Drop Test of Loaded Containers by Free Fall	2019 (ra23)
ASTM D5277	Standard Test Method for Performing Programmed Horizontal Impacts Using an Inclined Impact Tester	2022
ASTM D5487	Standard Test Method for Simulated Drop of Loaded Containers by Shock Machines	2016 (ra22)
ASTM D6055	Standard Test Methods for Mechanical Handling of Unitized Loads and Large Shipping Cases and Crates	1996 (ra19)
ASTM D6179	Standard Test Methods for Rough Handling of Unitized Loads and Large Shipping Cases and Crates	2020
ASTM D6344	Standard Test Method for Concentrated Impacts to Transport Packages	2004 (ra24)
ASTM D642	Standard Test Method for Determining Compressive Resistance of Shipping Containers, Components, and Unit Loads	2025
ASTM D6653	Standard Test Methods for Determining the Effects of High Altitude on Packaging Systems by Vacuum Method	2013 (ra21)
ASTM D7386	Standard Practice for Performance Testing of Packages for Single Parcel Delivery Systems	2025

Shortlist of test methods

Test Method	Name	Issue Date
ASTM D880	Standard Test Method for Impact Testing for Shipping Containers and Systems	1992 (ra21)
ASTM D999	Standard Test Methods for Vibration Testing of Shipping Containers	2008 (ra23)
ASTM E171	Standard Practice for Conditioning and Testing Flexible Barrier Packaging	2011 (ra20)
ASTM F1886 / 1886M	Standard Test Method for Determining Integrity of Seals for Flexible Packaging by Visual Inspection	2025
ASTM F1929	Standard Test Method for Detecting Seal Leaks in Porous Medical Packaging by Dye Penetration	2023
ASTM F1980	Standard Guide for Accelerated Aging of Sterile Barrier Systems and Medical Devices	2021
ASTM F2096	Standard Test Method for Detecting Gross Leaks in Medical Packaging by Internal Pressurization (Bubble Test)	2011 (ra19)
ASTM F2825	Standard Practice for Climatic Stressing of Packaging Systems for Single Parcel Delivery	2018
ASTM F3039	Standard Test Method for Detecting Leaks in Nonporous Packaging or Flexible Barrier Materials by Dye Penetration	2023
ASTM F88 / 88M	Standard Test Method for Seal Strength of Flexible Barrier Materials	2023
DIN 55423-6	Transportkette für Fleisch und Fleischerzeugnisse – Teil 6: Palette aus Polyethylen, 800 mm × 1200 mm × 160 mm; Ausführung, Anforderungen und Prüfung	2019-03
DIN 55440-1	Packmittelprüfung; Stauchprüfung; Prüfung mit konstanter Vorschubgeschwindigkeit	2019-10
DIN EN 14149	Verpackung - Versandfertige Packstücke und Ladeeinheiten - Vertikale Stoßprüfung durch Kippen	2003
DIN EN 22248	Verpackung – Versandfertige Packstücke – Vertikale Stoßprüfung (freier Fall)	1993
DIN EN 60068-2-1	Umgebungseinflüsse - Teil 2-1: Prüfverfahren - Prüfung A: Kälte	2008
DIN EN 60068-2-2	Umgebungseinflüsse - Teil 2-2: Prüfverfahren - Prüfung B: Trockene Wärme	2008
DIN EN 60068-2-27	Umgebungseinflüsse - Teil 2-27: Prüfverfahren - Prüfung Ea und Leitfaden: Schocken	2010

Shortlist of test methods

Test Method	Name	Issue Date
DIN EN 60068-2-30	Umgebungseinflüsse - Teil 2-30: Prüfverfahren - Prüfung Db: Feuchte Wärme, zyklisch (12 + 12 Stunden)	2006
DIN EN 60068-2-31	Umgebungseinflüsse - Teil 2-31: Prüfverfahren - Prüfung Ec: Schocks durch raue Handhabung, vornehmlich für Geräte	2009
DIN EN 60068-2-32	Umweltprüfungen - Teil 2: Prüfungen - Prüfung Ed: Frei Fallen	1995
DIN EN 60068-2-6	Umgebungseinflüsse - Teil 2-6: Prüfverfahren - Prüfung Fc: Schwingen (sinusförmig)	2008
DIN EN 60068-2-64	Umgebungseinflüsse - Teil 2-64: Prüfverfahren - Prüfung Fh: Schwingen, Breitbandrauschen (digital geregelt) und Leitfaden	2020
DIN EN 60068-2-78	Umweltprüfungen - Teil 2-78: Prüfungen; Prüfung Cab: Feuchte Wärme, konstant	2014
DIN EN IEC 60068-2-13	Umweltprüfungen - Teil 2: Prüfungen; Prüfgruppe M: Niedriger Luftdruck	2022
DIN EN IEC 60068-2-38	Umgebungseinflüsse - Teil 2-38: Prüfverfahren - Prüfung Z/AD: Zusammengesetzte Prüfung, Temperatur/Feuchte, zyklisch	2022
DIN EN ISO 12048	Verpackung - Versandfertige Packstücke - Kompressions- und Stapelprüfung unter Verwendung einer Kompressionsprüfmaschine	2001
DIN EN ISO 13355	Verpackung - Versandfertige Packstücke und Ladeeinheiten - Schwingprüfung mit vertikaler rauschförmiger Anregung	2017
DIN EN ISO 2233	Verpackung - Versandfertige Packstücke und Ladeeinheiten - Klimatische Vorbehandlung für die Prüfung	2001
DIN EN ISO 2234	Verpackung - Versandfertige Packstücke und Ladeeinheiten - Stapelprüfung unter statischer Last	2002-12
DIN EN ISO 2244	Verpackung - Versandfertige Packstücke und Ladeeinheiten - Horizontale Stoßprüfung	2002
DIN EN ISO 2247	Verpackung - Versandfertige Packstücke und Ladeeinheiten - Schwingprüfung mit niedriger Festfrequenz	2002
DIN EN ISO 2873	Verpackung - Versandfertige Packstücke und Ladeeinheiten - Unterdruckprüfung	2002
DIN EN ISO 3037	Wellpappe – Bestimmung des Kantenstauchwiderstandes (Verfahren für ungewachste Kanten)	2023
DIN EN ISO 4180	Verpackung – Versandfertige Packstücke – Allgemeine Regeln für die Erstellung von Prüfplänen	2020

Shortlist of test methods

Test Method	Name	Issue Date
DIN EN ISO 8318	Verpackung - Versandfertige Packstücke und Ladeeinheiten - Schwingprüfung mit variabler sinusförmiger Frequenz	2002
DIN EN ISO 8611-1	Paletten für den Gütertransport - Flachpaletten - Teil 1: Prüfverfahren (ISO 8611-1:2025)	2025
DIN EN ISO 8611-2	Paletten für den Gütertransport - Flachpaletten - Teil 2: Leistungsanforderungen und Auswahl von Prüfungen (ISO 8611-2:2025)	2025
DIN EN ISO 8611-3	Paletten für den Gütertransport - Flachpaletten - Teil 3: Maximale Nutzlasten	2012
DIN ISO 10531	Verpackung - Versandfertige Packstücke - Festigkeitsprüfung von Ladeeinheiten	2000
ISTA 1A	Non-Simulation Integrity Performance Test Procedure – Packaged-Products 150 lb (68 kg) or Less	2016
ISTA 1B	Non-Simulation Integrity Performance Test Procedure – Packaged-Products Over 150 lb (68 kg)	2016
ISTA 1C	Non-Simulation Integrity Performance Test Procedure – Extended Testing for Individual Packaged-Products 150 lb (68 kg) or Less	2014
ISTA 1D	Non-Simulation Integrity Performance Test Procedure – Extended Testing for Individual Packaged-Products Over 150 lb (68 kg)	2014
ISTA 1E	Non-Simulation Integrity Performance Test Procedure – Unitized Loads of Same Product	2014
ISTA 1G	Non-Simulation Integrity Performance Test Procedure – Packaged-Products 150 lb (68 kg) or Less (Random Vibration)	2014
ISTA 1H	Non-Simulation Integrity Performance Test Procedure – Packaged-Products Over 150 lb (68 kg) (Random Vibration)	2014
ISTA 2A	Partial Simulation Performance Test Procedure – Packaged-Products 150 lb (68 kg) or Less	2012
ISTA 2B	Partial Simulation Performance Test Procedure – Packaged-Products Over 150 lb (68 kg)	2012
ISTA 2C	Partial Simulation Performance Test Procedure – Furniture Packages	2022
ISTA 2D	Partial Simulation Performance Test Procedure – Flat Packaged-Products for Parcel Delivery System Shipment	2012
ISTA 2E	Partial Simulation Performance Test Procedure – Elongated Packaged-Products for Parcel Delivery System Shipment	2012

Shortlist of test methods

Test Method	Name	Issue Date
ISTA 2F	Partial Simulation Performance Test Procedure – Performance Testing of Shipping Containers for LTL Shipment, National Motor Freight Classification Item 180	2012
ISTA 3A	General Simulation Performance Test Procedure – Packaged-Products for Parcel Delivery System Shipments 70kg (150 lb) or Less (standard, small, flat or elongated)	2018
ISTA 3B	General Simulation Performance Test Procedure – Packaged-Products for Less-Than-Truckload (LTL) Shipment	2013
ISTA 3E	General Simulation Performance Test Procedure – Similar Packaged-Products in Unitized Loads for Truckload Shipment	2017
ISTA 3F	General Simulation Performance Test Procedure – Packaged Products in Mixed Pallet Loads Regional Shipment 100 lb (45 kg) or Less	2012
ISTA 3H	General Simulation Performance Test Procedure – Products or Packaged-Products in Mechanically Handled Bulk Transport Containers	2014
ISTA 3K	General Simulation Performance Test Procedure – Fast Moving Consumer Goods for the European Retail Supply Chain	2013
ISTA 6 - Amazon.com - over boxing	e-Commerce Fulfillment for Parcel Delivery Shipment	2018
ISTA 6 - Amazon.com - SIOC	Ships in Own Container (SIOC) for Amazon.com Distribution System Shipment	2018
ISTA 3L	Generalized E-commerce Retailer Fulfillment Test	2023
ISTA 7D	Temperature Test for Transport Packaging	2007
ISTA 7E	Testing Standard for Thermal Transport Packaging Used in Parcel Delivery System Shipment	2010
MIL-STD 810	Environmental Engineering Considerations And Laboratory Tests	2019
VDI 2700 Blatt 14	Ladungssicherung auf Straßenfahrzeugen – Ermittlung von Reibbeiwerten	2011
GB/T 4857.23	Packaging – Basic Tests for Transport Packages – Part 23: Vertical Vibration Test Method	2022

Category B, Test Methods in the Scope: compression tests, crush tests, and stacking tests

Category B

Test Methods in the Scope: compression tests, crush tests, and stacking tests

Test Parameters: Force, Deflection and elongation

Test Method	Name	Issue Date
ASTM D4169 Schedule B / C	Standard Practice for Performance Testing of Shipping Containers and Systems	2023e1
ASTM D4577	Standard Test Method for Compression Resistance of a Container Under Constant Load	2019 (RA 2023)
ASTM D3575 Suffix BB	Standard Test Methods for Flexible Cellular Materials Made From Olefin Polymers	2020
ASTM D642	Standard Test Method for Determining Compressive Resistance of Shipping Containers, Components, and Unit Loads	2025
DIN 55423-6 5.6	Transportkette für Fleisch und Fleischerzeugnisse – Teil 6: Palette aus Polyethylen, 800 mm × 1200 mm × 160 mm; Ausführung, Anforderungen und Prüfung	01/2017
DIN 55440-1	Packmittelpfung; Stauchprüfung; Prüfung mit konstanter Vorschubgeschwindigkeit	2019
DIN EN ISO 12048	Verpackung - Versandfertige Packstücke - Kompressions- und Stapelprüfung unter Verwendung einer Kompressionsprüfmaschine	2001
DIN EN ISO 2234	Verpackung - Versandfertige Packstücke und Ladeeinheiten - Stapelprüfung unter statischer Last	2002
DIN EN ISO 3037	Wellpappe – Bestimmung des Kantenstauchwiderstandes (Verfahren für ungewachste Kanten)	03/2023
DIN EN ISO 4180 6.6	Verpackung – Versandfertige Packstücke – Allgemeine Regeln für die Erstellung von Prüfplänen	03/2020
DIN EN ISO 8611-1 8.1, 8.2, 8.3, 8.4, 8.5, 8.6, 8.7, 8.8	Paletten für den Gütertransport - Flachpaletten - Teil 1: Prüfverfahren (ISO 8611-1:2025)	06/2025
DIN EN ISO 8611-2	Paletten für den Gütertransport - Flachpaletten - Teil 2: Leistungsanforderungen und Auswahl von Prüfungen (ISO 8611-2:2025)	06/2025
DIN EN ISO 8611-3	Paletten für den Gütertransport - Flachpaletten - Teil 3: Maximale Nutzlasten	2012
ISTA 1C Test Block 2	Non-Simulation Integrity Performance Test Procedure – Extended Testing for Individual Packaged-Products 150 lb (68 kg) or Less	2014

Category B, Test Methods in the Scope: compression tests, crush tests, and stacking tests

Test Method	Name	Issue Date
ISTA 1D Test Block 2	Non-Simulation Integrity Performance Test Procedure – Extended Testing for Individual Packaged-Products Over 150 lb (68 kg)	2014
ISTA 2A Test Block 2	Partial Simulation Performance Test Procedure – Packaged-Products 150 lb (68 kg) or Less	2012
ISTA 2B Test Block 2	Partial Simulation Performance Test Procedure – Packaged-Products Over 150 lb (68 kg)	2012
ISTA 2F Test Block 3	Partial Simulation Performance Test Procedure – Performance Testing of Shipping Containers for LTL Shipment, National Motor Freight Classification Item 180	2012
ISTA 3E Test Block 4	General Simulation Performance Test Procedure – Similar Packaged-Products in Unitized Loads for Truckload Shipment	2017
ISTA 3F Test Block 2	General Simulation Performance Test Procedure – Packaged Products in Mixed Pallet Loads Regional Shipment 100 lb (45 kg) or Less	2012
ISTA 3H Test Block 14	General Simulation Performance Test Procedure – Products or Packaged-Products in Mechanically Handled Bulk Transport Containers	2014
ISTA 3L Test Block 10	Generalized E-commerce Retailer Fulfillment Test	2023
ISTA 6 - Amazon.com - SIOC Test Block 10	Ships in Own Container (SIOC) for Amazon.com Distribution System Shipment	2018

Category B, Test Methods in the Scope: vibration tests, shock tests, and bouncing tests

Test Methods in the Scope: vibration tests, shock tests, and bouncing tests

Test Parameters: Force vector, vibration amplitude (peak-to-peak), vibration velocity, acceleration, and frequency range

Test Method	Name	Issue Date
ASTM D4169 Schedule D / E / F	Standard Practice for Performance Testing of Shipping Containers and Systems	2023e1
ASTM D7386 Schedule D	Standard Practice for Performance Testing of Packages for Single Parcel Delivery Systems	2025
ASTM D4728	Standard Test Method for Random Vibration Testing of Shipping Containers	2017 (RA 2022)
ASTM D999	Standard Test Methods for Vibration Testing of Shipping Containers	2008 (RA 2023)
ASTM D3332	Standard Test Methods for Mechanical-Shock Fragility of Products, Using Shock Machines	1999 (RA 2023)
ASTM D5487	Standard Test Method for Simulated Drop of Loaded Containers by Shock Machines	2016 (RA 2022)
ASTM D6179 Method E	Standard Test Methods for Rough Handling of Unitized Loads and Large Shipping Cases and Crates	2020
DIN EN 60068-2-6	Umgebungseinflüsse - Teil 2-6: Prüfverfahren - Prüfung Fc: Schwingen (sinusförmig)	2008
DIN EN 60068-2-27	Umgebungseinflüsse - Teil 2-27: Prüfverfahren - Prüfung Ea und Leitfaden: Schocken	2010
DIN EN 60068-2-31	Umgebungseinflüsse - Teil 2-31: Prüfverfahren - Prüfung Ec: Schocks durch raue Handhabung, vornehmlich für Geräte	04/2009
DIN EN 60068-2-64	Umgebungseinflüsse - Teil 2-64: Prüfverfahren - Prüfung Fh: Schwingen, Breitbandrauschen (digital geregelt) und Leitfaden	2020
DIN EN ISO 13355	Verpackung - Versandfertige Packstücke und Ladeeinheiten - Schwingprüfung mit vertikaler rauschförmiger Anregung	2017
DIN EN ISO 2247	Verpackung - Versandfertige Packstücke und Ladeeinheiten - Schwingprüfung mit niedriger Festfrequenz	2002
DIN EN ISO 4180 6.4	Verpackung – Versandfertige Packstücke – Allgemeine Regeln für die Erstellung von Prüfplänen	03/2020

Category B, Test Methods in the Scope: vibration tests, shock tests, and bouncing tests

Test Method	Name	Issue Date
DIN EN ISO 8318	Verpackung - Versandfertige Packstücke und Ladeeinheiten - Schwingprüfung mit variabler sinusförmiger Frequenz	2002
ISTA 1A Test Block 2, 3	Non-Simulation Integrity Performance Test Procedure – Packaged-Products 150 lb (68 kg) or Less	2016
ISTA 1B Test Block 2, 3	Non-Simulation Integrity Performance Test Procedure – Packaged-Products Over 150 lb (68 kg)	2016
ISTA 1C Test Block 3, 4, 5	Non-Simulation Integrity Performance Test Procedure – Extended Testing for Individual Packaged-Products 150 lb (68 kg) or Less	2014
ISTA 1D Test Block 3, 4, 5	Non-Simulation Integrity Performance Test Procedure – Extended Testing for Individual Packaged-Products Over 150 lb (68 kg)	2014
ISTA 1E Test Block 2, 3	Non-Simulation Integrity Performance Test Procedure – Unitized Loads of Same Product	2014
ISTA 1G Test Block 2, 3	Non-Simulation Integrity Performance Test Procedure – Packaged-Products 150 lb (68 kg) or Less (Random Vibration)	2014
ISTA 1H Test Block 2, 3	Non-Simulation Integrity Performance Test Procedure – Packaged-Products Over 150 lb (68 kg) (Random Vibration)	2014
ISTA 2A Test Block 3, 4, 5, 6, 7	Partial Simulation Performance Test Procedure – Packaged-Products 150 lb (68 kg) or Less	2012
ISTA 2B Test Block 3, 4, 6, 7, 8	Partial Simulation Performance Test Procedure – Packaged-Products Over 150 lb (68 kg)	2012
ISTA 2C Test Block 2, 3	Partial Simulation Performance Test Procedure – Furniture Packages	2022
ISTA 2D Test Block 1	Partial Simulation Performance Test Procedure – Flat Packaged-Products for Parcel Delivery System Shipment	2012
ISTA 2E Test Block 1	Partial Simulation Performance Test Procedure – Elongated Packaged-Products for Parcel Delivery System Shipment	2012
ISTA 2F Test Block 2, 4, 5	Partial Simulation Performance Test Procedure – Performance Testing of Shipping Containers for LTL Shipment, National Motor Freight Classification Item 180	2012
ISTA 3A Test Block 4, 5, 6, 7, 8	General Simulation Performance Test Procedure – Packaged-Products for Parcel Delivery System Shipments 70kg (150 lb) or Less (standard, small, flat or elongated)	2018
ISTA 3B Test Block 7, 8, 9	General Simulation Performance Test Procedure – Packaged-Products for Less-Than-Truckload (LTL) Shipment	2013

Category B, Test Methods in the Scope: vibration tests, shock tests, and bouncing tests

Test Method	Name	Issue Date
ISTA 3E Test Block 5	General Simulation Performance Test Procedure – Similar Packaged-Products in Unitized Loads for Truckload Shipment	2017
ISTA 3F Test Block 4, 5, 6, 7, 8	General Simulation Performance Test Procedure – Packaged Products in Mixed Pallet Loads Regional Shipment 100 lb (45 kg) or Less	2012
ISTA 3H Test Block 7	General Simulation Performance Test Procedure – Products or Packaged-Products in Mechanically Handled Bulk Transport Containers	2014
ISTA 3K Test Block 9	General Simulation Performance Test Procedure – Fast Moving Consumer Goods for the European Retail Supply Chain	2014
ISTA 3L Test Block 12, 13, 14	Generalized E-commerce Retailer Fulfillment Test	2023
ISTA 6 - Amazon.com – over boxing Test Block 3	e-Commerce Fulfillment for Parcel Delivery Shipment	2018
ISTA 6 - Amazon.com - SIOC Test Block 12, 13, 14	Ships in Own Container (SIOC) for Amazon.com Distribution System Shipment	2018
MIL-STD 810 H, Section 514.8: Vibration *	Environmental Engineering Considerations And Laboratory Tests: Section 514.8: Vibration	2019
*Kategorien: 4, 5, 7, 8, 9, 11, 12, 13, 14, 20, 21, 22		
MIL-STD 810 H, Section 516.8: Shock Procedure I	Environmental Engineering Considerations And Laboratory Tests: Section 516.8: Shock	2019
GB/T 4857.23-2021	Packaging - Basic Tests for Transport Packages - Part 23: Vertical Vibration Test Method	2022

Category B, Test Methods in the Scope: horizontal impact tests

Test Methods in the Scope: horizontal impact tests

Test Parameters: velocity

Test Method	Name	Issue Date
ASTM D4169 Schedule A / G	Standard Practice for Performance Testing of Shipping Containers and Systems	2023e1
ASTM D5277	Standard Test Method for Performing Programmed Horizontal Impacts Using an Inclined Impact Tester	2022
ASTM D880	Standard Test Method for Impact Testing for Shipping Containers and Systems	1992 (RA 2021)
DIN 55423-6 5.7.2	Transportkette für Fleisch und Fleischerzeugnisse – Teil 6: Palette aus Polyethylen, 800 mm × 1200 mm × 160 mm; Ausführung, Anforderungen und Prüfung	01/2017
DIN EN ISO 2244	Verpackung - Versandfertige Packstücke und Ladeeinheiten - Horizontale Stoßprüfung	12/2002
DIN EN ISO 4180 6.5.4	Verpackung – Versandfertige Packstücke – Allgemeine Regeln für die Erstellung von Prüfplänen	03/2020
DIN EN ISO 8611-1 8.10, 8.11, 8.12	Paletten für den Gütertransport - Flachpaletten - Teil 1: Prüfverfahren (ISO 8611-1:2025)	06/2025
DIN EN ISO 8611-2	Paletten für den Gütertransport - Flachpaletten - Teil 2: Leistungsanforderungen und Auswahl von Prüfungen (ISO 8611-2:2025)	06/2025
DIN EN ISO 8611-3	Paletten für den Gütertransport - Flachpaletten - Teil 3: Maximale Nutzlasten	10/2012
DIN ISO 10531 7.2.2	Verpackung - Versandfertige Packstücke - Festigkeitsprüfung von Ladeeinheiten	03/2000
ISTA 1A Test Block 3	Non-Simulation Integrity Performance Test Procedure – Packaged-Products 150 lb (68 kg) or Less	2016
ISTA 1B Test Block 3	Non-Simulation Integrity Performance Test Procedure – Packaged-Products Over 150 lb (68 kg)	2016
ISTA 1C Test Block 5	Non-Simulation Integrity Performance Test Procedure – Extended Testing for Individual Packaged-Products 150 lb (68 kg) or Less	2014
ISTA 1D Test Block 5	Non-Simulation Integrity Performance Test Procedure – Extended Testing for Individual Packaged-Products Over 150 lb (68 kg)	2014
ISTA 1E Test Block 4	Non-Simulation Integrity Performance Test Procedure – Unitized Loads of Same Product	2014

Category B, Test Methods in the Scope: horizontal impact tests

Test Method	Name	Issue Date
ISTA 1G Test Block 3	Non-Simulation Integrity Performance Test Procedure – Packaged-Products 150 lb (68 kg) or Less (Random Vibration)	2014
ISTA 1H Test Block 3, 4	Non-Simulation Integrity Performance Test Procedure – Packaged-Products Over 150 lb (68 kg) (Random Vibration)	2014
ISTA 2A Test Block 5	Partial Simulation Performance Test Procedure – Packaged-Products 150 lb (68 kg) or Less	2012
ISTA 2B Test Block 5	Partial Simulation Performance Test Procedure – Packaged-Products Over 150 lb (68 kg)	2012
ISTA 2C Test Block 4, 5	Partial Simulation Performance Test Procedure – Furniture Packages	2022
ISTA 2F Test Block 7, 11	Partial Simulation Performance Test Procedure – Performance Testing of Shipping Containers for LTL Shipment, National Motor Freight Classification Item 180	2012
ISTA 3B Test Block 6, 14	General Simulation Performance Test Procedure – Packaged-Products for Less-Than-Truckload (LTL) Shipment	2013
ISTA 3E Test Block 2	General Simulation Performance Test Procedure – Similar Packaged-Products in Unitized Loads for Truckload Shipment	2017
ISTA 3H Test Block 2	General Simulation Performance Test Procedure – Products or Packaged-Products in Mechanically Handled Bulk Transport Containers	2014
ISTA 3K Test Block 7, 8	General Simulation Performance Test Procedure – Fast Moving Consumer Goods for the European Retail Supply Chain	2014
ISTA 3L Test Block 8, 20	Generalized E-commerce Retailer Fulfillment Test	2023
ISTA 6 - Amazon.com - SIOC Test Block 8, 20	Ships in Own Container (SIOC) for Amazon.com Distribution System Shipment	2018
MIL-STD 810 H, Section 513.8: Acceleration	Environmental Engineering Considerations And Laboratory Tests: Section 513.8: Acceleration	2020

Category B, Test Methods in the Scope: drop tests

Test Methods in the Scope: drop tests

Test Parameters: drop height

Test Method	Name	Issue Date
ASTM D4169 Schedule A, J	Standard Practice for Performance Testing of Shipping Containers and Systems	2023e1
ASTM D7386 Schedule A, I, J, L, M, N	Standard Practice for Performance Testing of Packages for Single Parcel Delivery Systems	2025
ASTM D5265 Option A	Verfahren für die Stoßprüfung von Brücken / Standard Test Method for Bridge Impact Testing	2023
ASTM D5276	Standard Test Method for Drop Test of Loaded Containers by Free Fall	2023
ASTM D6179 Method A / B / C / D / F / G / H	Standard Test Methods for Rough Handling of Unitized Loads and Large Shipping Cases and Crates	2020
ASTM D6344	Standard Test Method for Concentrated Impacts to Transport Packages	2004 (RA 2024)
DIN 55423-6 5.7.1	Transportkette für Fleisch und Fleischerzeugnisse – Teil 6: Palette aus Polyethylen, 800 mm × 1200 mm × 160 mm; Ausführung, Anforderungen und Prüfung	01/2017
DIN EN 14149	Verpackung - Versandfertige Packstücke und Ladeeinheiten - Vertikale Stoßprüfung durch Kippen	11/2003
DIN EN 22248	Verpackung – Versandfertige Packstücke – Vertikale Stoßprüfung (freier Fall)	02/1993
DIN EN 60068-2-32	Umweltprüfungen - Teil 2: Prüfungen - Prüfung Ed: Frei Fallen	03/1995
DIN EN ISO 4180 6.5.2, 6.5.3	Verpackung – Versandfertige Packstücke – Allgemeine Regeln für die Erstellung von Prüfplänen	03/2020
DIN EN ISO 8611-1 8.9	Paletten für den Gütertransport - Flachpaletten - Teil 1: Prüfverfahren (ISO 8611-1:2025)	06/2025
DIN EN ISO 8611-2	Paletten für den Gütertransport - Flachpaletten - Teil 2: Leistungsanforderungen und Auswahl von Prüfungen (ISO 8611-2:2025)	06/2025
DIN EN ISO 8611-3	Paletten für den Gütertransport - Flachpaletten - Teil 3: Maximale Nutzlasten	10/2012
DIN ISO 10531 7.2.1	Verpackung - Versandfertige Packstücke - Festigkeitsprüfung von Ladeeinheiten	03/2000

Category B, Test Methods in the Scope: drop tests

Test Method	Name	Issue Date
ISTA 1A Test Block 3	Non-Simulation Integrity Performance Test Procedure – Packaged-Products 150 lb (68 kg) or Less	2016
ISTA 1B Test Block 3, 4	Non-Simulation Integrity Performance Test Procedure – Packaged-Products Over 150 lb (68 kg)	2016
ISTA 1C Test Block 5	Non-Simulation Integrity Performance Test Procedure – Extended Testing for Individual Packaged-Products 150 lb (68 kg) or Less	2014
ISTA 1D Test Block 5, 6	Non-Simulation Integrity Performance Test Procedure – Extended Testing for Individual Packaged-Products Over 150 lb (68 kg)	2014
ISTA 1E Test Block 5	Non-Simulation Integrity Performance Test Procedure – Unitized Loads of Same Product	2014
ISTA 1G Test Block 3	Non-Simulation Integrity Performance Test Procedure – Packaged-Products 150 lb (68 kg) or Less (Random Vibration)	2014
ISTA 1H Test Block 3, 4	Non-Simulation Integrity Performance Test Procedure – Packaged-Products Over 150 lb (68 kg) (Random Vibration)	2014
ISTA 2A Test Block 5	Partial Simulation Performance Test Procedure – Packaged-Products 150 lb (68 kg) or Less	2012
ISTA 2B Test Block 6	Partial Simulation Performance Test Procedure – Packaged-Products Over 150 lb (68 kg)	2012
ISTA 2C Test Block 3, 6	Partial Simulation Performance Test Procedure – Furniture Packages	2022
ISTA 2D Test Block 2, 3, 4, 5	Partial Simulation Performance Test Procedure – Flat Packaged-Products for Parcel Delivery System Shipment	2012
ISTA 2E Test Block 2, 3, 4, 5	Partial Simulation Performance Test Procedure – Elongated Packaged-Products for Parcel Delivery System Shipment	2012
ISTA 2F Test Block 6, 8, 9, 10	Partial Simulation Performance Test Procedure – Performance Testing of Shipping Containers for LTL Shipment, National Motor Freight Classification Item 180	2012
ISTA 3A Test Block 3, 9, 10, 11, 12, 13	General Simulation Performance Test Procedure – Packaged-Products for Parcel Delivery System Shipments 70kg (150 lb) or Less (standard, small, flat or elongated)	2018
ISTA 3B Test Block 2, 3, 4, 5, 10, 11, 12, 13, 16, 17, 18	General Simulation Performance Test Procedure – Packaged-Products for Less-Than-Truckload (LTL) Shipment	2013
ISTA 3E Test Block 3, 6	General Simulation Performance Test Procedure – Similar Packaged-Products in Unitized Loads for Truckload Shipment	2017

Category B, Test Methods in the Scope: drop tests

Test Method	Name	Issue Date
ISTA 3F Test Block 3, 5	General Simulation Performance Test Procedure – Packaged Products in Mixed Pallet Loads Regional Shipment 100 lb (45 kg) or Less	2012
ISTA 3H Test Block 3, 4, 5, 6, 10, 11, 12, 13	General Simulation Performance Test Procedure – Products or Packaged-Products in Mechanically Handled Bulk Transport Containers	2014
ISTA 3K Test Block 5, 6, 10, 12, 13	General Simulation Performance Test Procedure – Fast Moving Consumer Goods for the European Retail Supply Chain	2014
ISTA 3L Test Block 2, 3, 4, 5, 6, 7, 15, 16, 17, 18, 19, 21, 22, 23, 24	Generalized E-commerce Retailer Fulfillment Test	2023
ISTA 6 - Amazon.com – over boxing Test Block 2, 4	e-Commerce Fulfillment for Parcel Delivery Shipment	2018
ISTA 6 - Amazon.com - SIOC Test Block 2, 3, 4, 5, 6, 7, 15, 16, 17, 18, 19, 21, 22, 23, 24	Ships in Own Container (SIOC) for Amazon.com Distribution System Shipment	2018
MIL-STD 810 H, Section 516.8: Shock Procedure IV, VI, VII	Environmental Engineering Considerations And Laboratory Tests: Section 516.8: Shock	2019

Category B, Test Methods in the Scope: climate and temperature test

Test Methods in the Scope: climate and temperature test

Test Parameters: temperature and relative humidity

Test Method	Name	Issue Date
ASTM D4169 Schedule H	Standard Practice for Performance Testing of Shipping Containers and Systems	2023e1
ASTM D4332	Standard Practice for Conditioning Containers, Packages, or Packaging Components for Testing	2022
ASTM E171	Standard Practice for Conditioning and Testing Flexible Barrier Packaging	2011 (RA 2020)
ASTM F1980	Standard Guide for Accelerated Aging of Sterile Barrier Systems and Medical Devices	2021
ASTM F2825	Standard Practice for Climatic Stressing of Packaging Systems for Single Parcel Delivery	2018
AFNOR - NF S 99-700	Solutions isothermes autonomes pour produits de santé - Methode de qualification des performances thermiques	2022
DIN EN 60068-2-1	Umgebungseinflüsse - Teil 2-1: Prüfverfahren - Prüfung A: Kälte	2008
DIN EN 60068-2-2	Umgebungseinflüsse - Teil 2-2: Prüfverfahren - Prüfung B: Trockene Wärme	2008
DIN EN 60068-2-30	Umgebungseinflüsse - Teil 2-30: Prüfverfahren - Prüfung Db: Feuchte Wärme, zyklisch (12 + 12 Stunden)	2006
DIN EN 60068-2-78	Umweltprüfungen - Teil 2-78: Prüfungen; Prüfung Cab: Feuchte Wärme, konstant	2014
DIN EN IEC 60068-2-38	Umgebungseinflüsse - Teil 2-38: Prüfverfahren - Prüfung Z/AD: Zusammengesetzte Prüfung, Temperatur/Feuchte, zyklisch	2022
DIN EN ISO 2233	Verpackung - Versandfertige Packstücke und Ladeeinheiten - Klimatische Vorbehandlung für die Prüfung	2001
DIN EN ISO 4180 6.3, 6.6	Verpackung – Versandfertige Packstücke – Allgemeine Regeln für die Erstellung von Prüfplänen	03/2020
ISTA 1A Test Block 1	Non-Simulation Integrity Performance Test Procedure – Packaged-Products 150 lb (68 kg) or Less	2016
ISTA 1B Test Block 1	Non-Simulation Integrity Performance Test Procedure – Packaged-Products Over 150 lb (68 kg)	2016

Category B, Test Methods in the Scope: climate and temperature test

Test Method	Name	Issue Date
ISTA 1C Test Block 1	Non-Simulation Integrity Performance Test Procedure – Extended Testing for Individual Packaged-Products 150 lb (68 kg) or Less	2014
ISTA 1D Test Block 1	Non-Simulation Integrity Performance Test Procedure – Extended Testing for Individual Packaged-Products Over 150 lb (68 kg)	2014
ISTA 1E Test Block 1	Non-Simulation Integrity Performance Test Procedure – Unitized Loads of Same Product	2014
ISTA 1G Test Block 1	Non-Simulation Integrity Performance Test Procedure – Packaged-Products 150 lb (68 kg) or Less (Random Vibration)	2014
ISTA 1H Test Block 1	Non-Simulation Integrity Performance Test Procedure – Packaged-Products Over 150 lb (68 kg) (Random Vibration)	2014
ISTA 2A Test Block 1	Partial Simulation Performance Test Procedure – Packaged-Products 150 lb (68 kg) or Less	2012
ISTA 2B Test Block 1	Partial Simulation Performance Test Procedure – Packaged-Products Over 150 lb (68 kg)	2012
ISTA 2C Test Block 1	Partial Simulation Performance Test Procedure – Furniture Packages	2022
ISTA 2F Test Block 1	Partial Simulation Performance Test Procedure – Performance Testing of Shipping Containers for LTL Shipment, National Motor Freight Classification Item 180	2012
ISTA 3A Test Block 1, 2	General Simulation Performance Test Procedure – Packaged-Products for Parcel Delivery System Shipments 70kg (150 lb) or Less (standard, small, flat or elongated)	2018
ISTA 3B Test Block 1	General Simulation Performance Test Procedure – Packaged-Products for Less-Than-Truckload (LTL) Shipment	2013
ISTA 3E Test Block 1	General Simulation Performance Test Procedure – Similar Packaged-Products in Unitized Loads for Truckload Shipment	2017
ISTA 3F Test Block 1	General Simulation Performance Test Procedure – Packaged Products in Mixed Pallet Loads Regional Shipment 100 lb (45 kg) or Less	2012
ISTA 3H Test Block 1	General Simulation Performance Test Procedure – Products or Packaged-Products in Mechanically Handled Bulk Transport Containers	2014
ISTA 3K Test Block 1	General Simulation Performance Test Procedure – Fast Moving Consumer Goods for the European Retail Supply Chain	2014
ISTA 3L Test Block 1	Generalized E-commerce Retailer Fulfillment Test	2023

Category B, Test Methods in the Scope: climate and temperature test

Test Method	Name	Issue Date
ISTA 6 - Amazon.com – over boxing Test Block 1	e-Commerce Fullfillment for Parcel Delivery Shipment	2018
ISTA 6 - Amazon.com - SIOC Test Block 1	Ships in Own Container (SIOC) for Amazon.com Distribution System Shipment	2018
ISTA 7D	Temperature Test for Transport Packaging	2007
ISTA 7E	Testing Standard for Thermal Transport Packaging Used in Parcel Delivery System Shipment	2010
MIL-STD 810 H, Section 501.7: High Temperature	Environmental Engineering Considerations And Laboratory Tests: Section 501.7: High Temperature	2019
MIL-STD 810 H, Section 502.7: Low Temperature	Environmental Engineering Considerations And Laboratory Tests: Section 502.7: Low Temperature	2019
MIL-STD 810 H, Section 507.6: Humidity	Environmental Engineering Considerations And Laboratory Tests: Section 507.6: Humidity	2019

Category B, Test Methods in the Scope: vacuum test

Test Methods in the Scope: vacuum test

Test Parameters: low pressure

Test Method	Name	Issue Date
ASTM D4169 Schedule I	Standard Practice for Performance Testing of Shipping Containers and Systems	2023e1
ASTM D7386 Schedule K	Standard Practice for Performance Testing of Packages for Single Parcel Delivery Systems	2025
ASTM D6653	Standard Test Methods for Determining the Effects of High Altitude on Packaging Systems by Vacuum Method	2013 (RA 2021)
DIN EN IEC 60068-2-13	Umweltprüfungen - Teil 2: Prüfungen; Prüfgruppe M: Niedriger Luftdruck	2022
DIN EN ISO 2873	Verpackung - Versandfertige Packstücke und Ladeeinheiten - Unterdruckprüfung	2002
DIN EN ISO 4180 6.8	Verpackung – Versandfertige Packstücke – Allgemeine Regeln für die Erstellung von Prüfplänen	03/2020
ISTA 3A Test Block 2, 8	General Simulation Performance Test Procedure – Packaged-Products for Parcel Delivery System Shipments 70kg (150 lb) or Less (standard, small, flat or elongated)	2018
MIL-STD 810 H, Section 500.6: Low Pressure Procedure I / II	Environmental Engineering Considerations And Laboratory Tests: Section 500.6: Low Pressure	2019

Category A, Other Test Methods

Category A

Other Test Methods

Test Method	Name	Issue Date
ASTM F88 / 88M	Standard Test Method for Seal Strength of Flexible Barrier Materials	2023
ASTM F1886 / 1886M	Standard Test Method for Determining Integrity of Seals for Flexible Packaging by Visual Inspection	2025
ASTM F1929	Standard Test Method for Detecting Seal Leaks in Porous Medical Packaging by Dye Penetration	2023
ASTM F2096	Standard Test Method for Detecting Gross Leaks in Medical Packaging by Internal Pressurization (Bubble Test)	2019
ASTM F3039	Standard Test Method for Detecting Leaks in Nonporous Packaging or Flexible Barrier Materials by Dye Penetration	2023
ASTM D3078	Standard Test Method for Determination of Leaks in Flexible Packaging by Bubble Emission	2002 (RA 2021)
ASTM D6055 Method A	Standard Test Methods for Mechanical Handling of Unitized Loads and Large Shipping Cases and Crates	1996 (RA 2019)
DIN 55423-6 5.7.4, 5.8.1, 5.8.2	Transportkette für Fleisch und Fleischerzeugnisse – Teil 6: Palette aus Polyethylen, 800 mm × 1200 mm × 160 mm; Ausführung, Anforderungen und Prüfung	01/2017
DIN ISO 10531	Verpackung - Versandfertige Packstücke - Festigkeitsprüfung von Ladeeinheiten	03/2000
VDI 2700 Blatt 14	Ladungssicherung auf Straßenfahrzeugen – Ermittlung von Reibbeiwerten	09/2011

Category A, Other Test Methods

Abbreviations used:

ASTM	American Society for Testing and Materials	ISTA	International Safe Transit Association
DIN	Deutsches Institut für Normung e.V	IEC	International Electrotechnical Commission
EN	Europäische Norm	VDI	Verein Deutscher Ingenieure e.V.
AFNOR	Accociation Française de Normalisation	MIL-STD	Military Standard
RA	reapproved		

Dok. AO 5.3-01e	List of test methods, flexible accreditation	Rev. 06 /02 /2025
-----------------	--	-------------------