



Toilet Paper Test

Approval Date:

Revision Date:

Parameter	Method	Test Principle / Requirements	Tolerances/Limits	Units
TAQA = All Tests Listed Below				
Reporting Feature: Attributes Tested - Notification of failure and/or variance from National Brand by attribute Provides a simple scoring structure to allow comparison to other vendor's TAQA reports by a single number system.				
MICROBIOLOGICAL ATTRIBUTES				
N/A				
PHYSICAL CHARACTERISTICS		Condition samples @ 23°C ± 1°C and 50.0% RH ± 2.0% for 24 hours prior to testing		
Net Contents, declared and actual	CTN 1843	Direct Measurement of two containers and comparison to actual	Must meet U. S. Department of Commerce Maximum Allowable Variation for this particular size package	count
Dimensions - Sheet, length and width	Direct Measurement	Direct Measurement average of 10 measurements	Comparable to NRB	cm
Area of Sheet	Direct Measurement	Calculated from dimensions	Comparable to NRB	cm ²
Roll Diameter and Core Diameter	Direct Measurement	Average of three measurements	Comparable to NRB	cm
Thickness	TAPPI T-411	Average of 20 readings; using Thwing Albert Pro Gauge; made for bibulous paper	Comparable to NRB	mm (as is)
Average Weight (sheet)	CTN 1850	Average of 10 in duplicate	Comparable to NRB	grams
Basis Weight	TAPPI T-410	Average of 10 sets of measurements; minimum area is 516 cm ² per set; each set is weighed and calculated by g per cm ² x 10,000	Comparable to NRB	g/m ²
Tensile Strength, MD and CD (dry)	CTN 1900	Average of 10 readings; Uses Instron; 3" gap with 3" wide strip; adjust gap for pick-a-ply products. Speed is 2" per minute.	Comparable to NRB	kg or oz/inch
Elongation MD and CD (dry)	CTN 1900	Average of 10 readings; Uses Instron; 3" gap with 3" wide strip; adjust gap for pick-a-ply products. Speed is 2" per minute.	Comparable to NRB	%



Brightness	TAPPI T-452	Hunter Colorimeter, average of 5 readings	Comparable to NRB	%
Whiteness	TAPPI T-562	Hunter Colorimeter, average of 5 readings	Comparable to NRB	%
Absorbency Rate	TAPPI T-432	The time it takes for 10 µL of water to be absorbed, average of 10 replicates	Comparable to NRB	seconds
Ply Adhesion (for multiple ply tissues)	Direct Observation	How well the different layers of the tissue are interlocked together	Acceptable	N/A
Strength Test	In process	Tissue draped over glass and secured 31 g of lead shot on tissue then add 1 mL at a time of water, record number of milliliters to tear. 5 replicates	Comparable to NRB	mL
Product Workmanship Look for the following: Formation Cleanliness Holes, Tears Foreign Material Wrinkles Ragged, Wavy Lines Embossing Perforation Quality Tail Tack	CTN 1875	Visual examination for the presence of those analytes listed in the first column	No defects allowed	N/A
PACKAGING CHARACTERISTICS				
Package Workmanship	CTN1881	No defects that would affect aesthetics of functionality	No major defects allowed	N/A
Packaging	CTN 1884	Description of package	Report	N/A
ANALYTICAL				
N/A				
SENSORY PERFORMANCE				
		Three Member Technical Panel with ASTM screened and trained judges		
Color/Appearance	CTN 2862	Comparable Rating to NRB	Rating Scale 0 – 8, NLT 6	N/A
Odor as is	CTN 2862	Comparable Rating to NRB	Rating Scale 0 – 8, NLT 6	N/A
Softness	CTN 2862	Comparable Rating to NRB	Rating Scale 1 – Not Soft to 10 – Very Soft, NMT 1 point difference to NRB	N/A

[https://www.softerpaper.com/
sales@softerpaper.com](https://www.softerpaper.com/sales@softerpaper.com)