

Specifications

Custom Series— Vinyl



Classification	ASTM F1700-13a
Size*	6" x 36"
Overall Thickness*	2.00 mm
Wear Layer	0.20 mm / 8 mils
Construction	Layered plank consisting of wear layer, film, and backing
Edge	Square
Standard Colors	6" x 36" : Any Color or Pattern
Installation Method	Glue Down
Wear Limited Warranty	Residential: 10 Year / Commercial: 5 Year
Recycled Content	Available with recycled content or virgin vinyl.
Packaging	6" x 36": 36 sqft. per carton

Product Testing	Test Method	Requirement	Verdict
Chemical Resistance	ASTM F925-13	No more than slight change in surface dulling, Surface attack or staining	Pass
Dimensional Stability	ASTM F2199-09	≤ 0.51mm/305mm	Pass
Resistance to Heat	ASTM F1512-03 (R2013)	Δ E* shall not greater than 8.0 after 7 days exposure to 70° C	Pass
Resistance to Light	ASTM F1515-03 (R2008)	Δ E* shall not greater than 8.0 after a 300h exposure	Pass
Squareness	ASTM F2055-10	≤ 0.25mm	Pass
Size	ASTM F2055-10	Length: 1220 ± 1.6mm Width: 152.40 ± 0.19mm	Pass
Thickness	ASTM F386-11	A tolerance of 0.13mm Claimed value: 2.00mm	Pass
Residual Indentation	ASTM F1914-07 (R2011)	Average residual indentation 8% Max residual indentation 10%	Pass
Formaldehyde Emission	EN7171-1	None Detected E1 Rating	Pass



This product has been certified to meet the requirements of the flooring products certification program for indoor air quality.

For product information, installation instructions and more, visit www.knoasflooring.com

Test Report

Custom Series— Vinyl

Sample Description:

Report Number: 140818009SHJ-BP-1

Product: Vinyl Flooring

Model: 1 Model

Samples Quantity: 34 Pieces

Test Conducted:

Sample ID: S140818009SHJ-001~034

Test Methods: Please see the tables below.

Table 1 Test results based on ASTM F1700-13a Standard Specification for Vinyl Floor Tile

Test Item	Test Method	Requirement	Test Result	Verdict
Chemical Resistance	ASTM F925-13	No more than slight change in surface dulling, Surface attack or staining	See Appendix B for details	Pass
Resistance to Heat	ASTM F1512-03 (R2013)	ΔE^* shall not greater than 8.0 after 7 days exposure to 70° C	$\Delta E^* = 0.41$	Pass
Resistance to Light	ASTM F1515-03 (R2008)	ΔE^* shall not greater than 8.0 after a 300h exposure	$\Delta E^* = 3.38$	Pass
Squareness	ASTM F2055-10	$\leq 0.25\text{mm}$	Short edge Max: 0.05mm Long edge Max: 0.05mm	Pass
Size	ASTM F2055-10	Length: $1220 \pm 1.6\text{mm}$ Width: $152.40 \pm 0.19\text{mm}$	Length: 1220.0mm Width: 152.45mm	Pass
Thickness	ASTM F386-11	A tolerance of 0.13mm Claimed value: 2.00mm	Average: 2.04mm Min: 1.98mm Max: 2.07mm	Pass
Residual Indentation	ASTM F1914-07 (R2011)	Average residual indentation 8% Max residual indentation 10%	Average: 7.7% Max: 8.4%	Pass
Dimensional Stability	ASTM F2199-09	$\leq 0.51\text{mm}/305\text{mm}$	MD Max: $-0.31/200\text{mm}$	Pass

Note:

- Resistance to light was conducted at the external approved/qualified facility, located at [Shanghai].



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by  SCS Certified.

Test Report

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Table 2 Test results based on other standards

Test Item	Test Method	Test Result
Thickness of wear layer	ASTM F410-08(R2013)	0.21 mm
Tensile Strength	ASTM D638-2010	9.9 Mpa
Abrasion Resistance	ASTM D4040-2010	Wear Index: 13
Peel Strength	ASTM D903-98(R2010)	1.76 N/mm
Indentation	ASTM F1914-07(R2011)	1 min: 0.05mm
Density	ASTM D6111-13a	1850 kg/m ³
Specular Gloss	ASTM D523-14	11.4
Static Coefficient of Friction	ASTM C1028-07 ^{e1}	Dry: 0.87
Castor Chair Resistance	NALFA/ANSI LF-11	No visible damage after
Static Load	ASTM F970-07(R2011)	Applied Load: 250lb Residual indentation:
Internal bond strength and thickness swell after repeated wetting	ASTM D7519-11	Internal bond strength: 2.25Mpa Moisture Content: Before Submersion: 0.01% After Submersion: 0.05% Thickness swell: 0.59%
Resistance To Impact	ASTM F1265-03a(R2013)	No Crack

Note:

1. Wear index: 1000 times the loss in weight in milligrams per cycle. Total revolution is 1000.

Test Report

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Appendix B: Test result of Resistance to chemical

Regent	Test Method Test Result		
	Surface Attack	Color Change	Surface Dulling
White Vinegar (5% acetic acid)	0	0	0
Rubbing Alcohol (70% isopropyl alcohol)	0	0	0
White Mineral Oil (medicinal grade)	0	0	0
Sodium hydroxide solution (5% NaOH)	0	0	0
Hydrochloric Acid Solution (5% HCl)	0	0	0
Sulfuric Acid Solution (5% H ₂ SO ₄)	0	0	0
Household Ammonia Solution (5% NH ₄ OH)	0	0	0
Household Bleach (5.25% NaOCl)	0	0	0
Olive Oil (light)	0	0	0
Kerozene (K1)	0	0	0
Unleaded Gasoline (regular grade)	0	0	0
Phenol (5% active phenol)	0	0	0

According to ASTM F925-13, rating 0-3 represents:

0 = no change, 1 = slight change; 2 = moderate change; 3 = severe change

Surface Dulling—Indicating that the specimen suffered from a loss of gloss,

Color Change—Indicating that the specimen suffered discoloration or bleaching, or both, and

Surface Attack—Indicating that the specimen suffered surface damage such as softening, warping, swelling, blistering, peeling, raised or rough area.