

Address: Street No.8, Nhon Trach II, Nhon Phu Industrial Park, Hiep Phuoc ward, Nhon Trach district, Dong Nai province, Vietnam

## TECHNICAL DATA SHEET

PHYSICAL PROPERTIES & PACKAGING (SPC FLOORING – 6.5 MM / 0.5 MM)			
USE	Commercial & Residential (please refer to Recommended Usage for Commercial Recommended Areas)		
SIZE	9 "1/6 x 60". (230mm x 1524 mm)		
THICKNESS	5.0 mm		
THICKNESS - WEAR LAYER	0.5 mm (20 mil)		
PROFILE	Unilin click		
FINISH	Polyurethane acrylate coating, painted bevel edge		
UNDERLAYMENT	1.5mm IXPE 15X		
COVERAGE - CARTON	6 planks/carton (22.64 Sq.Ft. / 2.1 Sqm)		
COVERAGE - PALLET	60 cartons/pallet (1,358.4 Sq.Ft. / 126 Sqm)		
COVERAGE - CONTAINER	15 Pallets/20' container (20,376 Sq.Ft. / 1,890 Sqm)		

STANDARDS — MANUFACTURING & USAGE (ASTM F3261)					
STANDARD	DESCRIPTION	REQUIREMENTS	RESULTS		
ASTM F3261	Physical Characteristics / Tolerances	Refer to Standard	Passes Requirements		
ASTM F1914	Residual Indentation	Average: < 0.007% (0.18mm)	Passes Requirements		
ASTM F1914	Surface integrity	No Puncture through wear layer / De1cor layer	Passes Requirements		
ISO 23999	Dimensional Stability	≤ 0.2% / lineal ft. (305mm)	Passes Requirements		
ISO 23999	Curling	≤ 0.080 in. (2.0mm)	Passes Requirements		
ASTM F925	Chemical Resistance	No More Than Slight Change	Passes Requirements		
ASTM F1514	Resistance to Heat	Average $\Delta E \le 8.0$	Passes Requirements		
ASTM F1515	Resistance to Light	Average $\Delta E \leq 8.0$	Passes Requirements		



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ASTM F3261	Thickness Swell	Max 2% without Pad Max 5% with Pad	Passes Requirements
ASTM 970	Static loading without pad	$\leq 0.005 \text{ in } (0.13 \text{mm}) \text{ loading } 250 \text{lb/in}^2$	Passes Requirements

STANDARDS — SAFETY & PERFORMANCE				
STANDARD	DESCRIPTION	REQUIREMENTS	RESULTS	
ASTM E648	Critical Radiant Flux (Radiant Panel)	Class I: > 0.45 W/Sq. cm	Passes Requirements	
ASTM E662	Smoke Density	Flaming & Non-Flaming < 450	Passes Requirements	
CDPH Standard Method v1.2	VOCs/TVOCs, Formaldehyde	Refer to Standard	Passes Requirements	
REACH SVHC 223	Substances of Very High Concern	Per Substance: < 0.1% weight/weight	Passes Requirements	
ASTM F963	Heavy Metals	Refer to Standard (Table 1)	Passes Requirements	
CPSC-CH-C1001-09.4	Phthalates	Per CPSIA4 < 0.1% per Substance	Passes Requirements	
ASTM D2047	Coefficient of Friction / Slip Resistance	N/A (No Official Requirements)	≥0.6 (wet)	

STANDARDS — SOUND			
ASSEMBLY		RESULTS	NOTE
	ASTM E90	ASTM E492	
6" Concrete Slab	STC 52	IIC 55	Results of configuration: core 4.3mm, pad 1mm
8" Concrete Slab + Ceiling		IIC 71	Results of configuration: core 4.3mm, pad 1mm



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CHEMICAL RESISTANCE	ASTM F925-13(2020)				
Reagent	Rating				
	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% H2SO4)	0	0	0		
Household ammonia solution (5% NH4OH)	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		



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#### RESULTS OF TOXID CHEMICAL

1.Phthalates content

Test Method: Organic solvent extraction, analyzed by GCMS

Test Result:

Test No.				
Material No.				
Test Parameter	CAS NO	Unit	RL	Result
Dibutyl phthalate (DBP)	84-74-2	%	0.005	n.d.
Benzylbutyl phthalate (BBP)	85-68-7	%	0.005	n.d.
Diethylhexyl phthalate (DEHP)	117-81-7	%	0.005	n.d.
Di-n-octyl phthalate (DNOP)	117-84-0	%	0.005	n.d.
Diisononyl phthalate (DINP)	28553-12-0, 68515-48-0	%	0.005	n.d.
Diisobutyl phthalate (DIBP)	84-69-5	%	0.005	n.d.
Di-n-pentyl phthalate (DnPP)	131-18-0	%	0.005	n.d.
Di-n-hexyl phthalate (DnHP)	84-75-3	%	0.005	n.d.
Dicyclohexyl phthalate (DCHP)	84-61-7	%	0.005	n.d.
Diisopentyl phthalate (DiPP)	605-50-5	%	0.005	n.d.

Abbreviation: n.d. = not detected (< Reporting Limit)

RL = Reporting Limit NA = Not Applicable % = percentage

4. Vinyl Chloride

Test Method: EN ISO 6401:2008

Test result

Test No.	Material No.	Test Parameter	Unit	RL	Test Result
T001	M001	Vinyl chloride monomer	mg/kg	1	n.d.

Abbreviation: n.d. = not detected (< Reporting Limit)

RL = Reporting Limit ppm = part per million

mg/kg (milligram per kilogram) is equal to ppm

NA = not applicable

#### 2.Total heavy metal content

Test Method: ASTM F963-17 (CPSC method)

Test Result:

		1	est No.	T001
	Material No.			
Test Parameter	CAS NO	Unit	RL	Result
Antimony	7440-36-0	mg/kg	10	n.d.
Arsenic	7440-38-2	mg/kg	10	n.d.
Barium	7440-39-3	mg/kg	10	n.d.
Cadmium	7440-43-9	mg/kg	10	n.d.
Chromium	7440-47-3	mg/kg	3	n.d.
Lead	7439-92-1	mg/kg	10	n.d.
Mercury	7439-97-6	mg/kg	0.3	n.d.
Selenium	7782-49-2	mg/kg	10	n.d.

Abbreviation: n.d. = not detected (< Reporting Limit)

RL = Reporting Limit

mg/kg = milligram per kilogram

#### 5. Formaldehyde

Test Method: EN ISO 14184-1:2011

#### Test Result:

Test No.			T001
	Mat	erial No.	M001
Test Parameter	Unit	RL	Result
Formaldehyde content	mg/kg	10	n.d.

Abbreviation: n.d. = not detected (< Reporting Limit)

RL = Reporting Limit ppm = part per million

mg/kg (milligram per kilogram) is equal to ppm

NA = not applicable



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#### CERTIFICATIONS











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