RAIAN.

ELITE

econo



AUTOMATION, SMT & LEAN MANUFACTURING

ESD TILE

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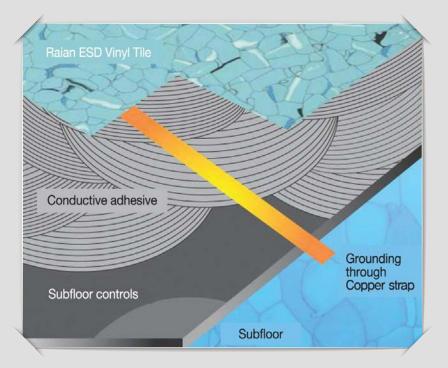




Raian ESD control Vinyl Tile

Raian electro-conductive/static-dissipaitve vinyl tile is the best solution for ESD(Electro Static Discharge) protected floor. The Conductive or Dissipative properties are permanent and not depend on ambient humidity. High vinyle contents and high-pressure manufacturing process guarantee excellent physical properties like wear/indentation/abrasion resistance. Also, smooth but non-porous surface of tile have strong chemical resistance properties and cleaning & maintenance is easy. Tiles shall be fully flexible, of homogeneous structure, consisting of color PVC chips coated with a special conductive liquid and static pressed to obtain a solid PVC block from which the final tile is sliced.

Each tile should be printed on the back with Lot No, Resistance Mark and Direction for installation and to be die-cut to 600x600/610x610mm, with a 2.0/3.0mm thickness and specific weight.



ESD Floor Covering Structure

Seam Welding Rod



AMS



ESD TILE



This is a production sample, which may vary slightly in shade from the Production LOT.





Homogeneous ESD Vinyl Tile Technical Features

	Specification	Test Standard	Raian Homogeneous ESD Vinyl	
	specification		Elite	Econo
	Type of Floor covering	EN 649	Homogeneous EC /	
FLOOR CLASSIFICATION		ASTM F 1700	Class 1 - Type A, 1	
		NFPA Life safty code 101	Class 1 - Interior Floor Finish Meets Standard Commercial : 34 / Industrial : 43 Meets the requirements	
		NFPA 99 Standard for health care facility		
	Floor Classification (Wear rating / Static load resistance)	EN 685		
	Underwriters Laboratories	UL		
	mak Origin	Ŭ.	South Korea China	
	No of Color		12	12
	Cleanroom Classification	Federal standard 209 E	Meets Class 1 Cleanne	
	Outgassing : CVCM	ASTM E 594		
			CVCM 2	
PHYSICAL FEATURES	Tile Dimension Size	EN 427 90° Press cutting	494×494 / 590×590 / 600×600 / 610×610 / 900×900	500×500 / 600×600 / 610×610
		Bevel cutting	450×450 / 600×600 / 610×610	NA
		ASTM F 536 : Size tolerance ($<\pm 0.4 \text{ mm} / 305 \text{ mm}$)	<±0.4 mm /	
	Dimensional Stablity	EN 434/FED. STD. NO 501a, M 6211	<0.25%/<0.51 mm/ 305 mm	
	Squareness	ASTM F 540 : Square tolerance (< 0.25 mm / 305 mm)	<0.25 mm /	305 mm
	Wear Layer Thickness	EN 429	2.00 mm / 3	6.00 mm
	Wear Layer Reinforcement / Glossy Surface Treatment	Heat Surface Melting Glossy Coating	Heat Surface Melting	Glossy Coating
	Total thickness	EN 428	2.00 mm / 3.00 mm	
		ASTM F 386 : Thickness Tolerance (±0.13 mm)	Meets Standard	
	Weight / m ²	EN 430	2.00 mm : 3.10 kg/m ² / 3.0 mm : 4.82 kg/m ²	
	Wear Resistance (Abrasion / Thickness Loss)	EN 660-1	<0.15 mm	
		EN 649	Group P	
		ASTM D 4060 (CS-17 Wheel, 1,000 g, 1,000 cycles)	70 mg	
	Titte Hardness	ASTM D 2240 (CS-17 wite), 1,000 g, 1,000 gets/	and the second sec	
			67	
	Residual Indentation	EN 433 / Din 51955	< 0.04 mm	
		ASTM F 1914 (<8%)	<8%	
	Static Load Limit	ASTM F 970	2.0T :>1,500 pound / square inch : Long term, 3.0T :>2,500 pound / square inch : Long ter	
	C Flexibility	ASTM F 137	25.4 mm mandrel without crack or breaking	
	Castors Wheel Test	EN 425	No Damage	
ELECTRICAL FEATURE FIRE RESISTANCE	Ω Electrical Resistance	Din 51953 / EN 1081	5.0 × 10 ⁴ < R < 10 ⁶ / (10 ⁶) × 10 ⁶ < R < 10 ⁸	
		ASTM F 150 / ESD F 150 / UL 779	E 2.5 × 10 ⁴ ~ 1.0 × 10 ⁶ / E 1.0×10 ⁶ ~ 1.0×10 ⁹	
	L Static Generation	EN 1815 / DIN 54 345	< 100 Volt with ESD Wax	
		AATCC 134	< 100 Volt with ESD Wax	
	F Static Decay Time	Mil B 81705C (5 Kv to 20 v)	< 0.1 Sec with ESD Wax	
	[Y] other party inte	EN 100015 (CECC 00015)	< 2.0 sec with ESD Wax	
		FTM 101 B Method 4046 (<0.5 sec)	< 0.01 Sec with ESD Wax	
	We Departies to Eiro	Din 4102 / Onorm B3810 / Onorm B3800	B1 (difficult to ignite) / Q1 (low smoke development)	
	Reaction to Fire			
		BS 476 : Part 7, 1997	Class 2	
		prEN 13501-1	Class Br	(NGC)
		prEN ISO9239-1	0.8 kw	
	Critical Radiant Flux	ASTM E 648 / NFPA 253	Class 1 (1.0	
	Flame Spread	ASTM E 162 / ASTM E 84 / NFPA 225	NFPA Class B / UBC Class II (<75)	
	Smoke Density	ASTM E 662 / NFPA 258	Passed (< 450D mc)	
	Thermal Conductivity	Din 52612 / NFX 10021	0.03 m ² k	Z/W
	Underfloor Heating	DIN 52612	Suitable - M	ax 30°C
		ASTM F 1514 (△E < 8 ave., max)	<∆E = 8.0	
Chemical Resistance	Chemical Resistance	EN 423 / DIN 51958	Excellent ; Test Report a	
	a n an a amin'ny fisiana amin'ny faritr'o amin'ny	ASTM D 543 / ASTM F 925	Excellent ; Test Report a	
	Slip Resistance Wet	Din 51130 / BGR181 (ZH1 / 571)	R9	
Slip Resistance		ADA Requirements	> 0.1	
		prEN 13893		
	Slip Parietance		0.89µ	
Light Resistance	Slip Resistance Dry	EN 13893	>0.	
	Color Fastness	EN 20105-B 02	>6	
		ISO 105 B 02, Met.3 - DIN53389	7	
	Resistance to Light	ASTM F 1515 (△E< 8 ave.,max)	<∆E = 8	
	Impact Sound Reduction	EN 717/2	4 dB	
	Sound Absorption	ISO 140-8 / ISO 717	3 dB	
ther	Water Absorption	ASTM D 570	0.03% water v	veight gain
Properties	Ease of Decontamination	DIN 25415-1 / ISO 8690	Excellent	
	C Recyclable		Yes	
	Formulation		No Carbon Contamination	

