



RhinoBluetec® Colorline 2

Homogeneous ESD Vinyl (PVC)



RhinoBluetec® homogeneous ESD vinyl (PVC) guarantees permanent stability on electro-conductive resistance ($2.5 \times 10^4 \sim 1.0 \times 10^6 \Omega$) or static dissipative resistance ($1.0 \times 10^4 \sim 1.0 \times 10^9 \Omega$), it has been widely used in electronic industry, semi-conductor industry, telecommunications industry, medical industry and healthcare environment. Rhino access floors with Bluetec® ESD vinyl finish is the best choice for computer room, clean room, laboratory, telephone/mobile phone switching center, facility control center, and places where request static control, dust free, and friendly environment.

RHINO®
Strive for perfection!

Product Ranges

RhinoBluetec® PVC



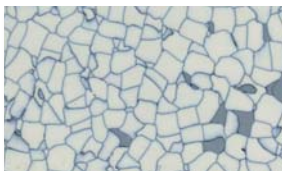
Description

RhinoBluetec® homogeneous ESD vinyl (PVC) guarantees permanent stability on electro-conductive resistance ($2.5 \times 10^4 \sim 1.0 \times 10^6 \Omega$) or static dissipative resistance ($1.0 \times 10^4 \sim 1.0 \times 10^9 \Omega$), it has been widely used in electronic industry, semi-conductor industry, telecommunications industry, medical industry and healthcare environment. Rhino access floors with Bluetec® ESD vinyl finish is the best choice for computer room, clean room, laboratory, telephone/mobile phone switching center, facility control center, and places where request static control, dust free, and friendly environment.



Performance

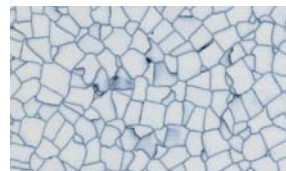
- Excellent electrical resistance
- Excellent fire resistance
- Excellent chemical resistance
- Excellent resistance to wear and tear
- Excellent resistance to scratching
- Excellent resistance to impact
- Excellent resistance to damp and static load resistance
- Easy to clean and maintenance
- Good dimensional stability



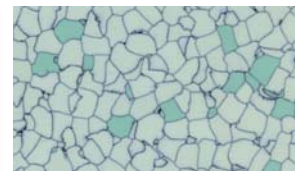
Bluetec® 9301



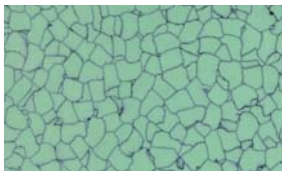
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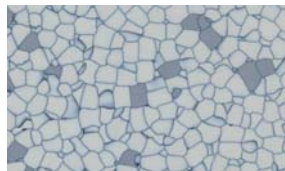
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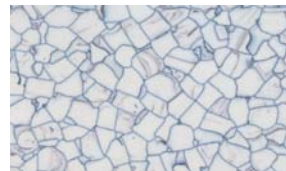
Bluetec® 9305



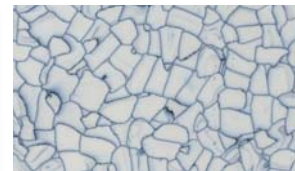
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Bluetec® 9603



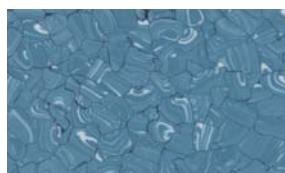
Bluetec® 0501



Bluetec® 0503



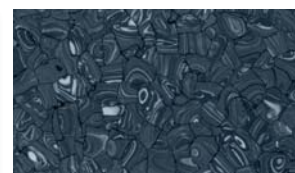
Bluetec® 0506



Bluetec® 0509



Bluetec® 0510



Bluetec® 0511

	Specification	Test Standard	Rhino Bluetec® Homogeneous ESD Vinyl	
FLOOR CLASSIFICATION	Type of Floor Covering	EN649	Homogeneous EC / SD Vinyl Flooring	
		ASTM F 1700	Class 1 - Type A, Solid Vinyl Tile	
		NFPA Life sfty code 101	Class 1 - Interior Floor Finish	
		NFPA 99 Standard for health care facility	Meets Standard	
	Floor Classification (Wear rating / Static load resistance)	EN 685	Commercial: 34 / Industrial: 43	
	No of Color		12	
PHYSICAL FEATURES	Cleanroom Classification	Federal Standard 209 E	Meets Class 1 Cleanroom Requirements	
	Outgassing: CVCVM	ASTM E 594	CVCVM 2.65%	
	Tile Dimension Size	EN 427	90° Press Cutting	600×600 / 610×610
		ASTM F 536: Size Tolerance (<±0.4mm / 305mm)		< ±0.4mm / 305mm
	Dimensional Stability	EN 434 / FED STD NO. 501a, M 6211		< 0.25%
		ASTM F 540: Square Tolerance (<0.51mm / 305mm)		< 0.51mm / 305mm
	Wear Layer Thickness	EN 429		2.00mm / 3.00mm
	Wear Layer Reinforcement/Glossy Surface Treatment			Heat Surface Melting Coating
	Total Thickness	EN 428		2.00mm / 3.00mm
		ASTM F 386: Thickness Tolerance (±0.13mm)		Meets Standard
	Weight / m ²	EN 430		2.00mm: 3.10kg/m ² / 3.00mm: 4.82kg/m ²
	Wear Resistance (Abrasion / Thickness Loss)	EN 660-1		< 0.15mm
		EN 649		Group P
		ASTM D 4060 (CS-17 Wheel, 1,000 g, 1,000 cycles)		70mg
	Hardness	ASTM D 2240 (Type D)		67
	Residual indentation	EN 433 / Din 51955		< 0.04mm
		ASTM F 1914 (<8%)		< 8%
Static Load Limit	ASTM F 970		2.00mm: 1,500lbs/ square inch; Long term, 3.00mm: 2,500lbs/ square inch; Long term	
Flexibility	ASTM F 137		12.7mm mandrel without crack or breaking	
Castors Wheel test	EN 425		No Damage	
ELECTRICAL FEATURES	Electrical Resistance	DIN 51953 / EN 1081	EC 5.0×10 ⁴ < R < 10 ⁶ / SD 10 ⁶ < R < 10 ⁸	
		ASTM F 150 / ESD F 7.1 / UL 779	EC 2.5×10 ⁴ ~ 1.0×10 ⁶ / SD 1.0×10 ⁶ ~ 1.0×10 ⁹	
	Static Generation	EN 1815 / DIN 54 345		< 100 Volt with ESD Wax
		AATCC 134		< 100 Volt with ESD Wax
Static Decay Time	Mil B 81705C (5Kv to 20v)		< 0.1 Sec with ESD Wax	
	EN 100015 (CECC 00015)		< 2.0 Sec with ESD Wax	
	FTM 101 B Method 4046 (<0.5 Sec)		< 0.01 Sec with ESD Wax	
FIRE RESISTANCE	Reaction to Fire	DIN 4102 / Onorm B3810 / Onorm B3800	B1 (Difficult to ignite)/Q1(Low smoke development)	
		BS 476; Part7, 1997	Class 2	
		prEN 13501-1	Class BFL S1	
		prEN ISO9239-1	0.8 kw/m ²	
	Critical Radiant Flux	ASTM E 648 / NFPA 253	Class 1 (1.08w/cm ²)	
	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 (<450Dme)	
	Thermal Conductivity	DIN 52612 / NFX 10021	0.309 w/m.k	
Underfloor Heating	DIN 52612		Suitable - Max 30 C	
	ASTM F 1514 (ΔE < 8 ave, max)		< ΔE = 8.0	
CHEMICAL RESISTANCE	Chemical Resistance	EN 423 / DIN 51958	Excellent; Test Report available on request	
		ASTM D 543 / ASTM F 925	Excellent; Test Report available on request	
SLIP RESISTANCE	Slip Resistance	Wet	DIN 51130 / BGR181 (ZH1 / 571)	
			ADA Requirements	
	Dry	prEN 13893	0.89μ	
LIGHT RESISTANCE	Color Fastness	EN 20105-B 02	> 6	
		ISO 105 B 02, Met. 3 - DIN53389	7	
	Resistance to Light	ASTM F 1515 (ΔE<8 ave, max)	< ΔE = 8.0	
OTHER PROPERTIES	Impact Sound Reduction	ISO 717 / 2	4 dB	
	Sound Absorption	ISO 140-8 / ISO 717	3 dB	
	Water Absorption	ASTM D 570	0.03% water weight gain	
	Ease of Decontamination	DIN 25415-1 / ISO 8690	Excellent	
	Recyclable		Yes	
Formulation		No Carbon contamination		



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