RhinoBluetec®

Homogeneous ESD Vinyl (PVC)

RhinoBluetec® homogeneous ESD vinyl (PVC) guarantees permanent stability on electro-conductive resistance ($2.5x10^4$ ~ $1.0x10^6\Omega$) or static dissipative resistance ($1.0x10^4$ ~ $1.0x10^9\Omega$), 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.

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Product Ranges

RhinoBluetec® PVC

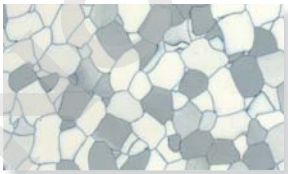
Description

RhinoBluetec® homogeneous ESD vinyl (PVC) guarantees permanent stability on electro-conductive resistance (2.5x104 ~ 1.0x106Ω) or static dissipative resistance (1.0x104 ~ 1.0x109Ω), 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.

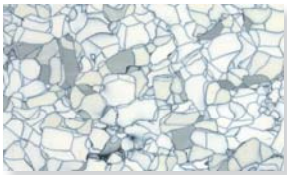
Performance

- 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® 601

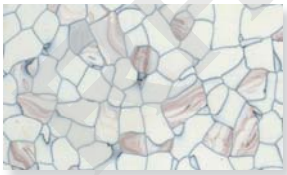


Bluetec® 602



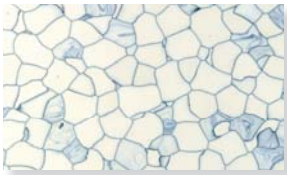
Bluetec® 603

Bluetec® 604

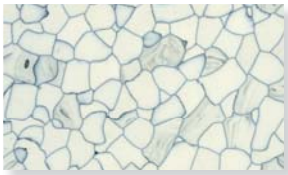


Bluetec® 605

Bluetec® 606

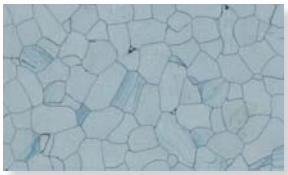


Bluetec® 611



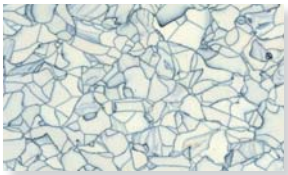
Bluetec® 612

Bluetec® 614



Bluetec® 615

Bluetec® 616



Bluetec® 617

Product Ranges

RhinoBluetec® PVC

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	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
	Cleanroom Classification	Federal Standard 209 E	Meets Class 1 Cleanroom Requirements
	Outgassing: CVCM	ASTM E 594	CVCM 2.65%
PHYSICAL FEATURES	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** $5.0\times10^4 < R < 10^6$ / **SD** $10^6 < R < 10^8$
		ASTM F 150 / ESD F 7.1 / UL 779	**EC** $2.5\times10^4 \sim 1.0\times10^6$ / **SD** $1.0\times10^6 \sim 1.0\times10^9$
	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℃
		ASTM F 1514 (△E < 8 ave, max)	< △E = 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)	R9
		ADA Requirements	> 0.6
		prEN 13893	0.89μ
	Slip Resistance Dry	EN 13893	> 0.3
LIGHT RESISTANCE	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 = 8.0
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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