

Technical Specification

LG Hausys floors [STATICPULSE]: ESD Control Tile

Technical Data

Characteristics	Standard	Specification	Test Result	
			Conductive Tile	Static Dissipative Tile
Electrical Resistance - Surface to Surface - Surface to Ground	ESD S 7.1 (100V) ASTM F 150 (100V)	Conductive : $2.5 \times 10^4 \sim 10^6 \Omega$ Static Dissipative : $10^6 \sim 10^9 \Omega$	$2.5 \times 10^4 \sim 10^6 \Omega$	$10^6 \sim 10^8 \Omega$
Electrical Resistance - Surface to Surface - Surface to Ground	DIN 51953 (500V)	Conductive : $2.5 \times 10^4 \Omega \sim$ Static Dissipative : $10^6 \sim 10^9 \Omega$	$2.5 \times 10^4 \Omega \sim$	$10^6 \sim 10^8 \Omega$
Static Generation	AATTC-134		0.1 KV	0.2 KV
Static Decay	Federal Test Method 101B Method 4046 at	< 0.5 sec	0.01 sec	0.01 sec
CEN classification	DIN EN 685		Class 34 / 43	
Composition of Material	ASTM F 1700		Homogeneous	
Thickness	ASTM F 386, DIN EN 428	as specified ± 0.13 mm	Meets Standard	
Nominal Sizes	ASTM F 536, DIN EN 427	$< \pm 0.4$ mm/304.8 mm	Meets Standard	
Squareness	ASTM F 540, DIN EN 427	maximum 0.25 mm	Meets Standard	
Residual Indentation	ASTM F 1914 DIN EN 433	average less than 8 %, max. single reading 10 %	< 8 %	

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Flexibility	ASTM F 137	No crack or break	No crack or break
Dimensional Stability	ASTM Fed. Std. No. 501a, Method 6211, DIN EN 434	< 0.51mm/304.8 mm	Meets Standard
Resistance to Chemicals	ASTM F 925, EN 423	No more than a slight change in surface dulling, surface attack, or staining	No more than a slight change in surface dulling, surface attack, or staining
Resistance to Heat	ASTM F 1514	$\Delta E < 8$ ave., max	$< \Delta E = 1.0$
Resistance to Light	ASTM F 1515	$\Delta E < 8$ ave., max	$< \Delta E = 6.0$
Static Load Limit	Modified ASTM F 970		< 0.127mm (at 1134kg)
Smoke Density	ASTM E 662	< 450	< 450
Flame Spread	ASTM E 84, NFPA 225	< 75	< 75
CVCM	ASTM E 595		1.31%
Thermal Conductivity	DIN 51612		0.039 W/m.k
Fire Resistance	DIN 4102		B1
	ONORM B 3810		B1 Q1
Critical Radiant Flux	ASTM E 648, NFPA 253		>1.08 W/cm ² (Class I Interior Floor Finish, NFPA Life Safety Code 101)
Abrasion Resistance	ASTM D 1044, CS-10-F Wheel, 500Gm Weight		Cycle 2,500 5,000 7,500 10,000 Gauge Loss 0.22% 0.44% 0.65% 0.86%
Resistance to wear	DIN EN 660-1		M
Effect of Castor Chair	DIN EN 425		No damage
Color Fastness	ISO 105 B02		At least 6
Impact Sound Absorption	Vli, ISO 140, ISO 717		approx 2dB

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Standard for health Care Facilities	NFPA 99		Confirms to the requirement of NFPA 99 in effect at the time of installation
Fulfills product requirements	DIN EN 649		Yes
Underwriters Laboratories CE	UL 779		Meets UL Standard
	Burning characteristics	EN ISO 9239-1, 11925-2	Bfl-S1



ISO9001



ISO14001