



**STATICPULSE™**  
ESD Tile

• Construction



1/8" homogeneous tile with uniform patterning from top to bottom makes LG Floors' STATICPULSE™ very durable and easy to maintain.

• Physical Data

ITEM	Standard test Method	ASTM Spec	Conductive Tile	Static Dissipative Tile
<b>Electrical / Electrostatic Properties</b>				
Electrical Resistance	ESD S 7.1 (100V)	$2.5 \times 10^4 \sim 10^6 \Omega$	$2.5 \times 10^4 \sim 10^6$	$10^6 \sim 10^8$
-Surface to Surface	ASTM F-150 (100V) NFPA 99 (500V)	$2.5 \times 10^4 \sim 10^6 \Omega$	$2.5 \times 10^4 \sim 10^6$	$10^6 \sim 10^8$ (SD : $10^6 \sim 10^9$ )
-Surface to Ground	DIN 51953 (500V)	$< 2.5 \times 10^4 \sim 10^6 \Omega$	$< 2.5 \times 10^4 \sim 10^6 \Omega$	$10^5 \sim 10^8$
Electrostatic Propensity (=Static Generation)	ESD STM 97.2	N/A	Less than 20 volts	Less than 20 volts
Static Decay	Federal Test Method 101B Method 4046 at 15% Relative Humidity	< 0.5 sec	0.01 sec	0.01 sec
<b>Other Properties</b>				
CEN Classification	DIN EN 685			Class 34 + 43
Composition of Material	ASTM F 1700, Certificate of Compliance			Homogeneous
Thickness	ASTM F 386, DIN EN 428	as specified $\pm 0.005$ in (0.13mm)		1/8", 2mm
Nominal Sizes	ASTM F 536, DIN EN 427	$\pm 0.01$ in./in. Ft (0.4 mm/304.8mm)		12 x 12", 24 x 24", 36 x 36"
Squareness	ASTM F 540	maximum 0.010 in. (0.25 mm)		< 0.010"
Residual Indentation	ASTM F1914 DIN EN 433	average less than 8% max. single reading 10%		< 7%
Flexibility	ASTM F 137	no crack or break		No crack or break
Dimensional Stability	ASTM Fed. Std. No. 501a, Method 6211, DIN EN 434	<0.020"/ft (0.51 mm/304.8 mm)		<0.015"/ft
Resistance to Chemicals	ASTM F 925 DIN 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		$< \Delta E = 2.0$
Resistance to Light	ASTM F 1515	$\Delta E < 8$ ave., max		$< \Delta E = 2.0$
Static Load Limit	Modified ASTM F 970-00			2,500 psi
Smoke Density	ASTM E 662	< 450		< 450
Flame Spread	ASTM E 84, NFPA 225	< 75		< 75
Fire Resistance	DIN 4102			B1
Critical Radiant Flux	ASTM F 648, NFPA 253			> 1.08 W/cm <sup>2</sup> (class I Interior Floor Finish, NFPA Life Safety Code 101)
Abrasion Resistance	ASTM D 1044, CS-10-F Wheel, 500Gm Weight			Cycle % Gauge Loss 10,000 1.60
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
Standard fo 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	UL 779			Meets UL Standard

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