

Dätwyler
ELECTRONIC

ESD UNIFLOOR VINYL FLOORING IN SHEET AND TILE

2mm (.080") Conductive 6000 10^6 ohms/Static Dissipative 7000 10^7 ohms

Short Form Specification: Flooring material shall be UNIFLOOR CONDUCTIVE 6000 or UNIFLOOR STATIC DISSIPATIVE 7000 homogeneous vinyl, in 2mm (.080) thickness in size, type and color, as hereinafter specified, as manufactured by Datwyler Ltd., Altdorf, Switzerland, and as distributed by Tek 5th Concepts, Incorporated. Material shall be manufactured by calendaring technology as a homogeneous asbestos free four-color random marbled pattern, with vinyl, color, electrically conductive agents, and random marbleization extending in uniform density throughout the entire product thickness. A conductive carbon back/vinyl backing shall be applied. Material shall not be subject to separation or cracking at the conductive joints when folded back on itself repeatedly.

	UNIFLOOR CONDUCTIVE 6000	UNIFLOOR STATIC DISSIPATIVE 7000
Weight, Thickness, Size, Color:	Eight standard colors; custom colors on request	
weight:	3000g/m ² 88 ozs/s.y.	
roll sizes, length:	125cm (41') x 30m (99' approx)	150cm (59') x 30m (99' approx)
tile sizes:	30cm x 30cm (12"x12"); 50cm x 50cm (20"x20"); 61cm x 61cm (24"x24")	
gauge:	2mm (.080")	
Test Specifications:		
Volume Resistivity (NFPA99)	10^6 Ohms approx.	10^7 Ohms approx.
Surface Resistivity (NFPA99) ASTM D257	10^7 Ohms/square approx.	10^8 Ohms/square approx.
Charge Decay Time FTMS 4040-101c	much less than .1 seconds	much less than .1 seconds
Electrostatic Propensity AATCC 134 Neolite:	step +2.5KV; scuff +2.8KV	step +2.8KV; scuff +4.3KV
SO polyurethane:	step 0KV; scuff 0KV	step 0KV; scuff 0KV
Insulation Resistance DIN 5193 part410	>50 kOhms	>50 kOhms
Fire Safety ASTM E-84 Steiner Tunnel	FS-20, Class A ASTM E-648 Radiant Panel	FS-20, Class A 1.07 W/cm ² , Class I 1.07 W/cm ² , Class I
Resistance to Light Fading, ISO	6-8 good	6-8 good
Resistance to Heat Transfer	11OW/m ² K (95Kcal/m ² /h/°C)	11OW/m ² K (95Kcal/m ² /h/°C)
Residual Indentation mm after 700 psi. after 2.5 hours recovery. (DIN 16961.2)	0.05	0.05 (standard<0.07)
Static Load Limit, p.s.i.	350	350
Dynamic Load Limit, psi. (DIN 16961.2)	700	700
Flexibility:	No cracks, weakness, breaks, or separations after repeated 360° bending	
Abrasive Wear, Taber H-18, 1000cycles, 1000gm	exceeds 70,000 cycles	exceeds 70,000 cycles
Products meet or exceed the requirements of Federal Specifications LF-475a and SST-312b.		

Chemical Resistance:

Not affected by: Human or animal body discharges; blood; most alkalis in diluted or concentrated form; tar free asphalt; mineral oil; photo fixing baths; silver nitrate; sea water; pool treatment chemicals; hydrogen peroxide; 5% acetic acid solution; gasoline; alcohol.

Mildly affected by: Betadine solution can stain if left for 6-8 hours before clean up. Tetrachloroethylene; toluene; benzene, strong acetic acid, and strong potassium hydroxide cause swelling, which is usually reversible after removal or cleanup of reagents. Concentrated sulfuric acid causes brown discoloration. Phenolic compounds may attack surface.

Unstable to, or changed by: Acetone, concentrated acetic acid, methylene chloride, ethylacetate, carbon disulphide cause swelling or permanent distortion, MEK (methyl ethyl ketone) dissolves material. Rubber containing certain antioxidants or antiageing additives; flooring stain; shoe polish; lipstick or other grease based pigments, magic markers, may cause light to strong permanent discolorations.