

Rubber Playground Flooring Tiles: Specifications

COMPOSITION:	Recycled Rubber – 97% Urethane Binders- 3%	
THICKNESS / WEIGHT: (Nominal)	1.0" (4.5 lbs./sq. ft.) 2.5" (6.5 lbs./sq. ft.)	
SURFACES	Flat Top Side Knobbed, Anti-Skid Underside All Surfaces are Non-Porous	
COLOR:	Black or Black with flecks of colored EPDM rubber	
TENSILE STRENGTH:	ASTM D412	200lb/in ² min.
HARDNESS:	60-64 Shore A	
FLAMMABILITY:	Passes Federal Flammability Standard Doc FF 1-70 CPSC	
DIMENSIONAL STABILITY:	+0.242% at two hours @ 60°C -0.092% at 48 hours @ 20°C & 65% Rel. Humidity	
ULTIMATE ELONGATION:	ASTM D412	83 %
FLAME SPREAD:	(UL 94 Standard, Horizontal Burning Test for Classifying Material 94HB)	0.495"/MIN on 3/4" thick mat
CRITICAL RADIANT FLUX:	ASTM E648-94a	0.11 watts/sq. cm
ELECTRICAL RESISTANCE:	ASTM D991	1.6 x 10 ⁹ megohms average 5.6 x 10 ⁸ megohms average
ELECTROSTATIC PROPENSITY:	AATCC Test Method 134-1991	NEG 0.9 KV Maximum Voltage
SOUND TRANSMISSION:	ASTM E413	51
ABRASION:	0.1 or 0.20 mg loss/cycle (ASTM D3389, 2000 cycles, H18 Wheels)	

STATIC LOAD LIMIT:	ASTM F970	400 lb/in ² < 0.005 in.
THERMAL RESISTIVITY:	0.72	
IMPACT INSULATION CLASS:	ASTM E492	49
CHPS/CA 01350:	ASTM D5116	Pass
THERMAL CONDUCTIVITY:	ASTM C518	Approx 0.406 Btu-in/hr-ft ² -°F
NOISE REDUCTION COEFFICIENT:	ASTM C423	0.10 sabine /ft ²
COEFFICIENT OF THERMAL EXPANSION:	1.10 x 10 ⁻³ in./ft.-°F	
WATER PERMEATION RATE:	0.045 cm./sec.	
TEAR RESISTANCE (ppi):	ASTM D624, Die C	13.13 kN/m
SUSTAINABILITY:	ASTM E2129	Data Collected
COEFFICIENT OF FRICTION:	ASTM D2047	> 0.90
CHEMICAL RESISTANCE:	ASTM F925	5% Acetic Acid: no change 70% Isopropyl Alcohol: no change 5% Sodium Hydroxide: no change 5% Hydrochloric Acid: no change 5% Ammonia: no change Bleach; no change 5% Phenol: no change Sulfuric Acid: no change
VOID VOLUME:	13% min.	
VOC Washington State IAQ Test:	ASTM D5116	Pass
DENSITY (lb/ft³):	ASTM D3676	60.0 lbs/cu. ft. min.
COMPRESSION & RECOVERY:	ASTM D575	Immediate 98.1% After 24 hours 99.2% After 48 hours 99.4% After 72 hours 99.7% After 96 hours 99.7%
FLEXIBILITY:	ASTM F137	Pass 1/4" mandrel
ACCELERATED AGING:	DIN 1835 Part 6, 2000 hrs. H18 Wheels	105% Tensile Retention 87% Elongation Retention

All testing is conducted off site by esteemed independent testing institutions. Copies of actual testing reports from these institutions are available by request. Please email or call American Floor Mats at 800-762-9010 or email us at help@americanfloormats.com for additional information.