astm

Visit www.flexcofloors.com where quick specs, technical information and product updates are always available.

rubber tile astm tests and results

COVERS TEXTURED RUBBER, RADIAL®, RADIAL® II, RADIAL® III, SQUARE², WEAVE, SPEXTONES®, AND EVOLVING STYLES® TILE

Standard Specification

ASTM F 1344, Specification for Rubber Floor Tile, Class I, Type A; Federal Specification SS-T-312B, Type II

Durability

ASTM F 970, Static Load Limit: 250 psi; Modified ASTM F 970: 1100 psi; Passes

ASTM D 3389, Abrasion Resistance: Passes, <1 gram lost

ASTM F 137, Flexibility: Passes, bend around a 1/4" mandrel,
no breaks or cracks

ASTM D 2240, Hardness (Shore A Durometer): Passes, >85

Resilience

ASTM F 925, Resistance to Chemicals: Excellent, list of chemicals available

Slip Resistance

ASTM D 2047, Static Coefficient of Friction (Slip Resistance): Excellent, >0.60 flat surfaces using Neolite sensors

Fire Test Data

ASTM E 648 (NFPA 253), Critical Radiant Flux: Class 1, >1.00 W/cm²

ASTM E 662 (NFPA 258), Smoke Generated by Solid Materials: Passes, <450 Fungi Resistance

Fungi Resistance

ASTM G 21, Fungi Resistance: Excellent

flextuft® astm tests and results

FOR VULCANIZED AND NON-VULCANIZED RUBBER BACKING

Fire Test Data

ASTM D 2859, Pill Test: Passes and exceeds the minimum char radius of 3" (average char per 8 strips tested = 0.75" radius)

Slip Resistance

ASTM D 2047, Static Coefficient of Friction (Slip Resistance): Exceeds ADA recommended ratings of 0.60 for flat surfaces using Neolite sensors and 0.80 for ramps

tuflex® force™ astm tests and results

Standard Specifications

ASTM D 2240 - Hardness, Shore A; 60 +/- 5 Pts

ASTM C 501 - Taber Abrasions, 1 kg wt @ 7,000 cycles; 6% (max) wt loss

ASTM D 624 - Tear Resistance; 93 +/- 15 lbs/in

ASTM D 412 - Tensile Strength; 525 +/- 100 PSI

ASTM D 412 - Elongation; 130% +/- 25%

ASTM D 412 - 100% Modulus; 390 +/- 50 PSI

ASTM D 395 - Compression Set, method B; 6% +/- 1%

ASTM D 1149 - Ozone Resistance, 70 hrs. @ 104 **ENTER DEGREES SYMBOL** F, Bent Loop Method, 50 pphm; Passes

ASTM D 2632 - Impact Resistance; 32% Rebound

ASTM D 2047 - Coefficient of Friction; 1.20 (dry)

ASTM E 648 - Critical Radiant Flux, Class II; 0.25 watts per sq cm

prime sports™ astm tests and results

Standard Specifications

ASTM D 3389 - (H-18 Wheels, 500 g/load, 1000 cycles) - Taber Abrasion: < 0.50 grams weight loss

ASTM C 1028 - Static Coefficient of Friction (Slip Resistance): Dry - 0.88

ASTM F 373 - Thickness Tolerance: +/- 0.015"

ASTM D 624 - Die C, Tear Strength: 70ppi

ASTM F 137 - Flexibility: Passes - 6mm Mandrel

ASTM F 1514 - Resistance to Heat: Delta E: 2.24 and AATCC Gray Scale: 3.85 average

ASTM F 925 - Resistance to Chemicals: No Change. Staining Agent List - 5%, Acetic Acid, 70% Isopropyl Alcohol, Mineral Oil, 5% Sodium Hydroxide, 5% Ammonia, Bleach, 5% Phenol, Gasoline, Sulfuric Acid, Kerosene and Olive Oil.

ASTM F 970 - Static Load Limi: 250 psi, (modified 400 psi)

ASTM D 2240 - Harness Shore A: 60 +/- 5 minutes

ASTM D 395B - Compression Set: 12% or less

ASTM D 792 - Density PCF: 65 lbs/cu/ft

wall base astm tests and results

Standard Specifications

ASTM F 1861 (Wallflowers), Type TS, Group 1, Styles A and B

ASTM F 1861 (Base 2000), Type TP, Group 2, Styles A and B

ASTM F 1861 (Vinyl Base), Type TV, Group 1 or 2, Styles A and B

ASTM F 1861 (Base Sculptures), Type TP, Group 1, Style A

Resilience

ASTM F 925, Resistance to Chemicals: Passes

ASTM F 1515, Light Stability: Excellent

Fire Test Data

ASTM E 648 (NFPA 253), Critical Radiant Flux: Class 1, >1.00 W/cm2

ASTM E 662 (NFPA 258), Smoke Generated by Solid Materials: Passes

rubber stair treads astm tests and results

Standard Specification

ASTM F 2169, Type TS

Durability

ASTM F 970, Static Load Limit: 250 psi; Modified ASTM F 970: 650 psi

ASTM D 3389, Abrasion Resistance: Passes, <1 gram lost

ASTM F 137, Flexibility: Passes, 1/4" mandrel, no breaks or cracks

Resilience

ASTM F 925, Resistance to Chemicals: Excellent, list of chemicals available

ASTM F 1515, Light Stability: Passes, flat surface, Delta E < 8.0

Fire Test Data

ASTM E 648 (NFPA 253), Critical Radiant Flux: Class 1, > 0.45 W/cm²

ASTM E 662 (NFPA 258), Smoke Generated by Solid Materials: Passes, < 450

Slip Resistance

ASTM D 2047, Static Coefficient of Friction (Slip Resistance): Excellent, <0.60 flat surfaces using Neolite sensors

Fungi Resistance

ASTM G 21, Fungi Resistance: Excellent

vinyl stair treads astm tests and results

Standard Specification

ASTM F 2169, Type TV

Durability

ASTM F 970, Static Load Limit: 250 psi; Modified ASTM F 970: 650 psi

ASTM D 3389, Abrasion Resistance: Passes, <1 gram lost

ASTM F 137, Flexibility: Passes, bend around a 1" mandrel,
no breaks or cracks

Resilience

ASTM F 925, Resistance to Chemicals: Excellent, list of chemicals available

ASTM F 1515, Light Stability: Passes, flat surface, Delta E < 8.0

Fire Test Data

ASTM E 648 (NFPA 253), Critical Radiant Flux: Class 1, >1.00 W/cm2

ASTM E 662 (NFPA 258), Smoke Generated By Solid Materials: Passes, < 450

Slip Resistance

ASTM D 2047, Static Coefficient of Friction (Slip Resistance): Excellent, <0.60 flat surfaces using Neolite sensors

esd rubber tile astm tests and results

Standard Specification

ASTM F 1344, Specification for Rubber Floor Tile, Class I, Type A; Federal Specification SS-T-312B, Type II

Durability

ASTM F 970, Static Load Limit: 250 psi; Modified ASTM F 970: 1100 psi; Passes

ASTM F 137, Flexibility: Passes, bend around a 1/4" mandrel, no breaks or cracks

ASTM D 2240, Hardness (Shore A Durometer): Passes, >85

Electrical Resistance

ASTM F 150, Electrical Resistance for Resilient Flooring; 1 x 106 to 1 x 108

Resilience

ASTM F 925, Resistance to Chemicals: Excellent, list of chemicals available

Slip Resistance

ASTM D 2047, Static Coefficient of Friction (Slip Resistance): Excellent, >0.60 flat surfaces using Neolite sensors

Fire Test Data

ASTM E 648 (NFPA 253), Critical Radiant Flux: Class 1, >1.00 W/cm2

ASTM E 662 (NFPA 258), Smoke Generated by Solid Materials: Passes, <450

Fungi Resistance

ASTM G 21, Fungi Resistance: Excellent

esd vinyl tile astm tests and results

Standard Specification

ASTM F 1700 - Specification for Solid Vinyl Tile; Class I, Type A; Federal Specification SS-T-312B, Type III

Durability

ASTM F 970 - Static Load Limit; 250 PSI; Modified ASTM F 970, 2000 PSI

ASTM F 510 - Abrasion Resistance; Excellent

Electrical Resistance

ASTM F 150 - Electrical Resistance; • Conductive, 2.5 x 104 to 1 x 106 • Static Dissipative, 1 x 106 to 1 x 108 • UL779 (UL Listed No. 22L9), ANSI/ESD S7.1-2005, NFPA 99

Resilience

ASTM F 925 - Resistance to Chemicals; Passes, List of chemicals available

ASTM F 1515 - Light Stability; Passes

Slip Resistance

ASTM D 2047 - Static Coefficient of Friction (Slip Resistance); > 0.50, < 0.70; dry, flat surface using neolite sensors

Fire Test Data

ASTM E 648 (NFPA 253) - Critical Radiant Flux; Class 1, > 1.00 W/cm2

ASTM E 662 (NFPA 258) - Specific Optical Density of Smoke Generated by Solid Materials; Passes, < 450

Fungi Resistance

ASTM G 21 - Determining Resistance of Synthetic Polymeric Materials to Fungi; Excellent Resistance

natural elements premium wood vinyl plank and natural elements luxury vinyl stone tile astm tests and results

Standard Specification

ASTM F 1700, Specification for Solid Vinyl Tile: Class III, Type B

Fire Test Data

ASTM E 648, Critical Radiant Flux: Class 1

ASTM E 662, Smoke Density; Passes

Durability

ASTM F 970, Static Load Limit: 250 psi; Modified ASTM F 970: 2000 psi

Resilience

ASTM F 925, Resistance to Chemicals: Excellent, list of chemicals available

ASTM F 1515, Light Stability: Passes, flat surface, Delta E < 8.0

contract®, appeal™, health design™ astm tests and results

Standard Specification

ASTM F 1700, Specification for Solid Vinyl Tile: Class 1, Type A; Federal Specification SS-T-312B, Type III

Durability

ASTM F 970, Static Load Limit: 250 psi; Modified ASTM F 970: 2000 psi

ASTM F 510, Abrasion Resistance: Excellent

Resilience

ASTM F 925, Resistance to Chemicals: Excellent, list of chemicals available

ASTM F 1515, Light Stability: Passes, flat surface, Delta E < 8.0

Fire Test Data

ASTM E 648 (NFPA 253), Critical Radiant Flux: Class 1, >1.00 W/cm2

ASTM E 662 (NFPA 258), Smoke Generated By Solid Materials: Passes, < 450

Bacteria Resistance

AATCC 147, Parallel streak 4mm zone; Inhibition of growth under sample

Slip Resistance

ASTM D 2047, Static Coefficient of Friction (Slip Resistance): Excellent, >0.60 flat surfaces using leather sensors

Fungi Resistance

ASTM G 21, Fungi Resistance, Rating 0: No growth

ASTM E 1428; pink strain no stain; 2mm zone

woodtones™ premium wood vinyl plank astm tests and results

Standard Specification

ASTM F 1700, Specification for Solid Vinyl Tile: Class III, Type B

Durability

ASTM F 970, Static Load Limit: 250 psi; Modified ASTM F 970: 500 psi

ASTM F 510, Abrasion Resistance: Excellent

Resilience

ASTM F 925, Resistance to Chemicals: Excellent, list of chemicals available

ASTM F 1515, Light Stability: Passes, flat surface, Delta E < 8.0

chemical resistance

All FLEXCO® products (except FlexTuft) were tested for resistance to various chemicals by placing one cubic centimeter of each chemical on the tile surface and then covering it with a watch glass. The chemicals were allowed to remain in contact with the tile for one hour and for 24 hours. Tiles were then washed with soap and water and allowed to dry under room conditions for 24 hours. Visual evaluations were then made and classified as follows:

No change = Chemical had no visible effect upon the tile or the effect would be eliminated in the course of ordinary maintenance

Surface dulling = Tile suffered loss of gloss

Surface attack = Tile suffered damage such as warping, swelling, blistering, peeling and raised or roughened areas

Stain = Tile discoloration

Chemical	1 Hour	24 hours
Acids		
Sulfuric Acid (Conc.)	No change	Light purple brown stain, surface dulling
Sulfuric Acid (77%)	No change	Light yellow stain, surface dulling
Sulfuric Acid (5%)	No change	No change
Nitric Acid (Conc.)	No change	Surface dulling
Nitric Acid (5%)	No change	Slight surface attack
Hydrochloric Acid (Conc.)	No change	No change
Hydrochloric Acid (5%)	No change	Slight surface attack
Hydrofluoric Acid (Conc.)	No change	No change
Hydrofluoric Acid (5%)	No change	No change
Acetic Acid (Conc.)	No change	Slight surface attack
Acetic Acid (5%)	No change	No change
Alcohols		
Isopropyl Alcohol (70%)	No change	No change
Methyl Alcohol	No change	No change
Ethyl Alcohol	No change	No change
Butyl Alcohol	No change	Slight surface attack
Alkalies		
Sodium Hydroxide (5%)	No change	No change
Ammonium Hydroxide (28%)	No change	No change
Aromatics		
Phenol	No change	Slight surface attack
Benzene	No change	Slight surface attack
Xylene	No change	Slight surface attack
Cresol	No change	Surface attack
Gasoline (Unleaded)	Slight change	Surface attack
Mineral Oil*	Slight change	Surface attack
Carbon Tetrachloride	No change	Slight surface attack
Chloroform	No change	Very slight surface attack
Trichlorethylene**	Very slight surface attack	Slight surface attack
Ketones/Esters		
Acetone	Very slight surface attack	Surface attack
Methyl Ethyl Ketone	Very slight surface attack	Surface attack
Amyl Acetate	No change	Surface attack
Ethyl Acetate	No change	Surface attack
Miscellaneous		
Silver Nitrate (5%)	No change	Brown/black stain
Ethyl Ether	No change	Very slight surface attack
Formaldehyde (40%)	No change	No change
Creosote	Yellow stain	Dark brown stain, surface attack
Thimerosal	No change	Pink stain
Iodine	No change	Dark yellow stain
Bleach (5.25% NaOCl)	No change	No change

* Rubber tile subject to surface attack at 24 hours.

** Rubber tile not affected.