



SUNFLEX RUBBER FLOORING TECHNICAL DATA SHEET

→ Product Description

Sunflex rubber tiles, recycled rubber rolls are manufactured from 100% recycled rubber. They are SBR rubber tiles made with hot moulding technology and polymerically bound crumb rubber granules. This offers great value and a variety of options for fitness, workouts, functional sections, and impact zones.

Sunflex rubber flooring have been designed for heavy strength training, conditioning, extreme weight impact, advanced ergonomics with force reduction and energy restitution, Olympic-style weight, without an odour, durable, non-toxic and more.

Sunflex rubber tiles, recycled rubber rolls are offered in a variety of thicknesses and have different densities to meet wear resistance and impact attenuation requirements.

This technical data sheet includes sunflex rubber flooring product line of standard rubber tiles, interlocking rubber tiles, rubber tile speckles, recycled rubber rolls, playground rubber tiles, rubber pavers, ballistic rubber tiles, anti-trespass panels, straight edge rubber tiles, easy-lock rubber tiles, multipurpose & customized recycled rubber mats.

→ Technical Specifications

Criteria for Evaluating Performance	Test Method	Typical Value
Pill flammability	ASTM D2859	Excellent pass
Skid Resistance	ASTM E303-93	Excellent pass
Hardness Shore	ASTM D2240	A 60
Ground Electrical Resistance	ASTM F150	M ohms 168
Compression Strength Test (Thickness 42mm)	DIN 53577	Load= 19950.83 N Compression Strength at 25% deflection = 4.39Mpa
Tensile Strength (After Aging at 70°C for 72 hrs)	ASTM D573/ASTM D412	MPA 1.01
Burning Behaviour Test	FMVSS 302	6.8 mm/min
Antimicrobial Test	ASTM G21:2015	Aspergillus niger ATCC16404 Penicillium pinophilum Hedgcock ATCC 9644 Chaetomium glososum ATCC 6205 Trichoderma virens ATCC 9645 Aureobasidium pullulans ATCC 15233
Sound Absorption Coefficients	ASTM C423	0.45 Noise Reduction Coefficient (NRC)
Reaction to Fire Tests for Floorings. Determination of the Burning Behaviour using a Radiant Heat Source	AS/ISO 9239.1-2003	CHF Value 1, Non-Directional ≤1.1 kW/m ² , Smoke Value 1, Non-Directional 1869 %.min
UV Exposure (150°C)	ISO: 4892-3	By chemical Analysis ISO: 4 SBR Blend Rubber No effect
Critical Fall Height	BS EN 1177:2008	PASS
Slip Resistance Ease of Ignition	BS 7188:1998+A2:2009	PASS
Abrasion	ASTM D4060: 2019	Wheel: CS -10, Test Load: 1000g No. of Cycles: 3000, Before Weight (mg) 28940, After 3000 Cycle Weight 28902.3, Weight Loss (mg) 37.7
Flammability	49 CFR PART 571-302 FMVSS 302: 2019	PASS
Density	ASTM D792: 2020 (Method-A)	1.096 (g/cm ³), Thickness 10mm
Durometer Hardness (Shore A)	ASTM D2240: 2015	65 (Shore A), Thickness 10mm

Tear Resistance	ASTM D624: 2000 (RA: 2012)	17.30 Tear Strength (KN/m)
Hardness (Shore A)	ASTM D2240: 2015	65 Hardness (Shore A)
Tensile Strength	ASTM D412: 2016	2.44 Tensile Strength (MPa) Type of Machine Used: CRE Test Speed: 500 mm/min.
Compression Set	ASTM D395: 2018, Method – B	87.47 Compression Set (%) Compression: 25% thickness Compression Condition: at 100°C for 72 hours
Compression Deformation	ISO 815-1: 2019 (Method – A)	84.10 Compression Deformation Set (%) Compression: 25% thickness Compression Condition: at 100°C for 72 hours
Ballistic Rubber Perforation	NIJ 0108.01 Level 3	No Perforation
Ballistic Rubber Perforation	NIJ 0108.01 Level 3	No Perforation
Surface Flammability of Carpets and Rugs (16 CFR Chapter II, Subchapter D, Part 1630 CPSC FF 1-70)	ASTM D2859	Passes the Federal Flammability Standard CPSC FF 1-70
Tear Strength	ASTM D3575	10.2 lbs
Thickness	ASTM D3676	0.398 Inch
Puncture Resistance	ASTM F1306	Force to Penetrate 180.4 Newtons, Elongation 25.1 mm
Smoke Density (Non-Flaming) Standard Test Method for Specific Optical Density of Smoke Generated by Solid Materials	ASTM E662	This material meets the requirements of NFPA Life Safety code for ASTM E662 of not to exceed 450 DMC.
Smoke Density (Flaming) Standard Test Method for Specific Optical Density of Smoke Generated by Solid Materials	ASTM E662	This material meets the requirements of NFPA Life Safety code for ASTM E662 of not to exceed 450 DMC.
Critical Radiant Flux of Floor Covering Systems Using a Radiant Heat Energy Source, also referenced as NFPA 253 and FTM Standard 372	ASTM E648	0.09 Watts/Square Cm*
Water Vapor Transmission of Materials: Water Method	ASTM E96	Water Vapor Emission 4.671 grains/ft ² /hr (16.015lbs /1000 ft ² /24 hrs), PERMEANCE 6.78 grains/hr/ft ² /Hg
Tearing Strength of Fabrics by Trapezoid Procedure	ASTM D5587 ASTM D4533	CROSS DIRECTION 101.8 Lbs. MACHINE DIRECTION 95.5 Lbs.
Coated Fabrics Abrasion Resistance (Rotary Platform Double-Head Abrader)	ASTM D3389	End point has not been reached.
Durometer Hardness	ASTM D2240	70
Resistance to Chemicals	ASTM F925	No Change to all with the exception of Slight Change to Kerosene
Static and Kinetic Coefficients of Friction of Plastic Film and Sheeting	ASTM D1894	0.64
Breaking Load and Elongation	ASTM D412	Width Tensile 176.6 lbs/sq inch Length Tensile 186.1 lbs/sq inch
Static Coefficient of Friction by the Horizontal Dynamometer Pull-Meter Method	ASTM C1028	Wet 0.48 Dry 0.74

*Additional testing data is accessible upon request.

Disclaimer

We have provided the technical data contained herein to the best of our knowledge. The test method, typical value has been obtained from laboratory (globally) accredited by ASTM. This information is provided without any warranty or liability for merchantability or fitness for a specific purpose. Due to the diverse range of materials, substrates, and site conditions, it is not possible to provide a guarantee for specific outcomes. Please note that the following information should be taken as general advice and not as legally binding recommendations. We provide expert advice on the application and end use of Sunflex rubber flooring products, drawing from our extensive knowledge and experience. Our recommendations are provided with the highest level of expertise and assume that the product is stored, handled, and applied correctly under normal conditions, in accordance with our guidance. Thoroughly testing the product is crucial to ensure its suitability for the intended application and purpose. Sunflex rubber flooring has the ability to adjust the features and specifications of its products. Kindly be aware that all orders are subject to our current terms and conditions of sales and delivery. Upon request, we can provide copies of the sheet and test reports.

www.sunflexrubberflooring.com



Made from 100%
Recycled Rubber



Sun-Flex[®]
Rubber Flooring