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Safety-Walk™

Cushion Matting 5100

(Also known as 3M™ Safe-tigue™ Matting)

1.0 Product Description	The product is a durable, flexible, vinyl mat having an open construction for easy cleaning, comfort and safety. The mat has a low profile to minimize interference with foot and cart traffic. The vinyl composition offers excellent resistance to a variety of chemicals, greases and detergents found in industrial or food service environments.	
2.0 Intended Use	For use in food service and industrial applications to provide slip-resistant and fatigue-resistant properties. The mat is not recommended as an entryway walk-off mat.	
3.0 Standard Sizes	Pre-Cut Mats:	3 ft. x 5 ft.; 3 ft. x 10 ft.
	Pre-Cut Rolls:	3 ft. x 20 ft.
	Custom Lengths:	
	Widths:	3 ft.
	Length:	2 ft. to 30 ft. in 1ft. increments
4.0 Color	Quarry Tile Red, Ebony	
5.0 Requirements	General Requirements The product shall be made of oil-resistant, all-vinyl, nonwoven continuous filaments bonded together to form a durable, resilient, porous mat.	
	Detailed Requirements:	
	Weight ASTM D418-68 Sect. 10-19	11.7 lbs./yd. ² (6.5 kg/m ²)
	Width ASTM D418-68 Sect. 9	35.8-36.5 inches (.091-0.92 m)
	Thickness ASTM D418-68 Sect. 30-35	0.42 inches minimum (10.5 mm)
	Microbiological Properties ASTM G-21-90	Inhibiting to fungal growth

**5.0 Requirements
(continued)**

Flammability DOC-FF-1-70 (Pill Test)	Passes
ASTM E-648 Flooring Radiant Panel Test	>1.0 watts/cm ²
Electrical Properties Dielectrical Strength ASTM D-149	9.4 kV
Volume Resistivity ASTM D-257	6.2 x 10 ¹¹ ohms-cm
Insulation Resistance ASTM D-257	2.4 x 10 ¹¹ ohms
Extended Use (Temperature) ASTM D-746 Brittle Point	-20°F to 140°F (-29°C to 60°C)
Coefficient of Friction (top surface) ASTM D-1894, Fig. 1(C) [1]	
Dry Leather	1.2
Dry Rubber	1.1
Wet Leather	1.2
Wet Rubber	1.1
Oiled Leather	1.1
Oiled Rubber	1.0
Crush Recovery from Static Load (10 lbs/in ² , 0.70 kg/cm ² for 24 hours)	99% Recovery
Breaking Strength ASTM D1117-77	35.6 lbs./2" (16.1 kg/2")
Chemical Resistance[2]	
Acid, Chrome Plating Solution	Excellent [3]
Acid, Organic (Pickle Juice)	Poor
Ammonium Persulfate	Excellent
Brake Fluid	Excellent
Chlorinated Solvents	Poor
Degreaser Solutions (non-chlorinated)	Excellent
Dishwashing Soap	Excellent
Electroless Tin Solution	Excellent
Ethyl Alcohol	Excellent
Ethylene Glycol	Excellent
Ferric Chloride	Excellent
Gasoline	Excellent
Glycerine	Excellent
Hexane	Excellent
Hydraulic Fluid	Poor
Hydrochloric Acid, 10%	Excellent
Isopropyl Alcohol	Poor
Ketones	Poor
Lithographic Fluid (3M-K-11)	Excellent
Methyl Alcohol	Excellent
Mineral Spirits	Excellent
Nickel Sulfate	Excellent
Oil, Cutting	Excellent

5.0 Requirements (continued)

Oil, Lubricating	Excellent
Oil, Peanut	Excellent
Oil, Vegetable	Excellent
Soap Solution (1% Tide)	Excellent
Sodium Hydroxide	Excellent
Sodium Tri-Phosphate	Excellent
Water	Excellent
Water (10% Salt)	Excellent
Water (Chlorinated) [4]	Excellent

[1] Standard test method for static and kinetic coefficients of friction of plastic film and sheeting.

[2] Immersion for 30 days at 72°F (22.2° C)

[3] Excellent – less than 3% dimension change and less than 5% hardness change

Poor – more than 3% dimension change and more than 5% hardness change; mat not recommended for use in presence of the chemical.

[4] May notice color change.

6.0 Packaging and Marking

Packaging: One mat or roll per carton.

Marking: Each carton shall be marked with product name, size, color, and manufacturer's trade name.

7.0 Cleaning

Routine Maintenance:

For Dry Areas:

1. Shake dirt from mat and remove from service area.
2. Sweep and remove dirt from service area.
3. If needed, mop or flush service area.
4. If needed, flush both sides of the mat with warm water to remove remaining dirt.
5. Allow mat to dry flat before placing mat back into service.

For Wet Areas:

Flush both sides of mat daily with warm water.

Periodic Maintenance:

1. Remove mat from service area if needed (no drainage in area).
2. Mop mat(s) on both sides with a disinfectant cleaner and let stand for ten (10) minutes.
3. Flush mat with warm water.
4. Allow mat to dry flat before placing back into service

8.0 Weight and Cube per Case

Size	Approximate Weight	Cube
3 ft. x 5 ft.	24 lb.	1.576 cu. ft.
3 ft. x 10 ft.	44 lb.	2.478 cu. ft.
3 ft. x 20 ft.	78 lb.	3.959 cu. ft.

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Important Notice:

This flyer is intended to be an introductory summary. The information provided is based upon typical conditions and is believed to be reliable; however, due to the wide variety of intervening factors 3M does not warrant that the results will necessarily be obtained. All details concerning product specifications and terms of sale are available from 3M.

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