



**BLACK**

**Hardware is not included with rolls.**

**Grounding Intervals for ESD Mats**

Sufficient ground cords should be used to reliably meet ANSI/ESD S20.20 Table 1 less than  $1 \times 10^9$  ohms for worksurfaces. An industry recommendation has been that continuous runs of ESD matting should be grounded at 3 metre intervals to allow proper charge decay rates with each individual ESD mat should be grounded with ground snap located no further than 1.5 metres from either end.

**Description:**

This material is designed primarily for floor mat use, but may also be used in tabletop applications where a conductive surface is required. This rubber material lays flat without curling, allowing people and equipment to pass safely and easily. Rubber material is heat resistant. Solder and flux will not damage the surface.



**Specifications:**

Construction: Homogeneous, two sides, Premium Nitrile  
Thickness: 1.5 mm  
Colour:\* Black  
Texture:\* Low glare, light texture  
Weight: 0.282 g/cm<sup>2</sup>, nominal  
Hardness: 70 Shore A (ASTM D-2240)  
Heat Resistance: -17.8° C to 343.3° C  
Chemical Resistance: Resistance to degradation by inorganic acids, organic acids, reducing agents, aliphatic hydrocarbons, mineral oil, aldehydes, and amines

\*Colour and texture may vary between lots and mills

Grounding: This material must be properly grounded for optimum electrical performance. Ask for Technical Bulletin PPE-5025.E for mat grounding instructions.

Cleaning: For optimum electrical performance, surface must be cleaned regularly using an ESD safe mat cleaner. Charleswater suggests using our Reztore Mat Cleaner Item #71021. Do not use cleaners with silicone. Silicone buildup will create an insulative film on the surface.

**Electrical Properties:**

Rp:  $10^4$  -  $10^5$  Ohms  
Rg:  $10^4$  -  $10^5$  Ohms  
Per IEC 61340-4-1

**80113 1.2 m x 12.2 m**

Hardware not included  
with roll

**80109 1.2 m x 2.4 m Floor Mat**

Hardware not included  
with mat



**Statfree G2™ Conductive Smooth Rubber, 1.5 mm**

CHARLESWATER LTD.  
UNIT 17. MILLBROOK BUSINESS PARK, SYBRON WAY  
CROWBOROUGH, EAST SUSSEX TN6 3JZ UNITED KINGDOM  
PHONE: 00 44 (0) 1892-665313, FAX: 00 44 (0) 1892-668838  
INTERNET: [www.charleswater.co.uk](http://www.charleswater.co.uk)

Drawing Number  
**PME-G2**

DATE:  
**7/06**

**Disclaimer:**

All statements, technical data, and recommendations contained herein are based upon tests we believe to be reliable.

However, the accuracy of completeness thereof is not guaranteed. The proper and correct applications of products and data is the responsibility of the user. Statements of recommendations not contained herein shall have no force or effect unless embodied in a written agreement signed by authorized officers of Desco Industries, Inc.

**RoHS Compliance Statement**

None of the following materials are intentionally added in manufacturing this product: lead, mercury, cadmium, hexavalent chromium, polybrominated biphenyls (PBB) or polybrominated diphenyl ethers (PBDE) as outlined in the Directive 2002/95/EC Article 4.1. See Desco Industries Inc. letter on-line at [Charleswater.co.uk](http://Charleswater.co.uk).

**Limited Lifetime Warranty:**

Charleswater warrants for one year that Staffree® matting products will be free of defects in materials and workmanship and will guarantee dissipative/conductive mat properties for the life of the mat. Damage to matting caused by misuse of any kind, including using inappropriate cleaners is not covered by Charleswater Limited Warranty.

Matting materials have a tendency to shrink slightly when first unrolled. In applications where length is critical, allow the material to relax for at least 4 hours before cutting to size. Always trim with a sharp knife or razor blade.

Per section 3 Definitions of Floor standard ESD STM7.1-2001 "Conductive Flooring Material: A floor material that has a resistance to ground of less than  $10^6$  ohms."