



**Black**

**Disclaimer:**

All statements, technical data, and recommendations contained herein are based upon tests we believe to be reliable. However, the accuracy or completeness thereof is not guaranteed. The proper and correct applications of products and data is the responsibility of the user. Statements or 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 2 and REACH Statement**

None of the RoHS 2 restricted materials or REACH substances of very high concern are intentionally added in manufacturing this product. Ref: European Union Directive 2011/65/EU and Regulation (EC) No. 1907/2006/CE. See Charleswater [Limited Warranty at Charleswater.co.uk](#).

**Limited Lifetime Warranty:**

Charleswater warrants for one year that Statfree® 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.

**Tolerances:**

Width ± 6.35mm  
Length ± 20.8mm for every linear metre of material

**Description:**

Charleswater Statfree CV280™ mat is a 2mm thick homogeneous polymer matrix of PVC material. It is designed to provide a flooring surface that does not generate a static charge and will act as part of the path to ground for an operator wearing ESD footwear. The resistance range (< 1 x 10<sup>6</sup> ohms Rp-p) will remain low enough to act as a path to ground with normal dirt and grime build up on a floor and meet the required limit of EN 61340-5-1 (< 3,5 x 10<sup>7</sup> ohms) for a person/footwear/flooring system. Statfree CV280™ is a hard flat mat designed for high traffic areas and is good for use under chairs and carts. To protect ESD floor tiles or minimize maintenance of ESD floor finish in high traffic areas, Statfree CV280™ can be used in conjunction with existing ESD flooring. The edges of the mat will not fold or bend. Each mat is lot coded for quality control and lifespan tracking.



Made in the United States of America

**Electrical Properties:**

Property	Test Method	Value
Rg Resistance:	IEC 61340-4-1	< 1 x 10 <sup>6</sup> ohms
Rp-p Resistance:	IEC 61340-4-1	< 1 x 10 <sup>6</sup> ohms

**Physical Properties:**

Construction:	Homogeneous conductive
Thickness:	2mm
Colour:*	Black
Texture:*	Pebble Embossed one side/Smooth backside
Tensile Strength (kg/m <sup>2</sup> ):	316,381 minimum
Tear Strength (kg/m):	1,339 minimum
Coefficient of Friction:	0.36
Durometer Hardness:	Shore "A" 80 ±5
Chemical Resistance:	Resistance to degradation by inorganic acids, organic acids, reducing agents, aliphatic hydrocarbons, mineral oil, aldehydes, and amines
Continuous Operating:	-29 °C to +93 °C
Flammability:	Passes FMV302

**Grounding:** This material must be properly grounded for optimum electrical performance. Part numbers [80172](#) & [80173](#) include [80014](#) Grounding Kit

**Cleaning:** Use only ESD mat cleaner such as Reztore™ Surface & Mat Cleaner to clean and extend mat useful life. Do not use cleaners containing silicone as silicone will create an insulative film on the surface. Do not use solvent based cleaners as solvents will dry out matting and may cause curling.

**Floor Mat Kit Item Numbers**

Item	Size
<a href="#">80172</a>	0.9m x 1.2m
<a href="#">80173</a>	1.2m x 1.8m

**Roll Material Item Numbers**

Item	Size
<a href="#">80170</a>	1.2m x 12.2m
<a href="#">80171</a>	1.2m x 18.3m

**MAT TOP KIT INCLUDES**

- 1 Floor Mat, size as specified
- 1 [80014](#) Grounding Kit
- 1 [60286](#) Ground Cord

\*Colour and texture may vary between lots and mills  
Specifications and procedures subject to change without notice.

**Statfree CV280™ Rolls and Mats**



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**Drawing Number**  
PME-CV280

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