

# ESD FLOORING



# SD COLLECTION

Polyflor Static Dissipative products are engineered for use where static control is required, but the resistance level of the floor does not need to be as low as that provided by a conductive flooring.

These floor coverings are ideal for use in telecommunications installations, computer rooms, electronic manufacturing and healthcare facilities, such as scanner rooms, X-ray suites and operating theatres.

The SD range comprises: Palettone SD, in 6 non-directional colourways, Finesse SD, in 5 non-directional colourways, and Polyflor SD, in 6 shades with a marbleised design.

## FINESSE SD



Cascade **5800**

w/r 5200



## POLYFLOR SD



Silver Grey **5110**

w/r 2090





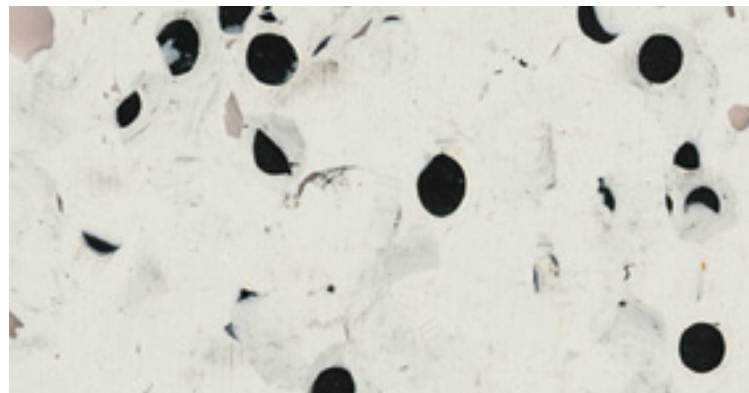
# EC COLLECTION

Polyflor Electrostatic Conductive products have been engineered to meet the latest international standards for ESD protection floor coverings.

Where the floor system including the footwear is the primary means of grounding personnel, the resistance of the combination is recommended in IEC 61340-5-1 as being between  $7.5 \times 10^5$  and  $3.5 \times 10^7$  ohms. Polyflor EC and OHMega EC in combination with ESD control footwear meets this requirement when tested to IEC 61340-4-5.

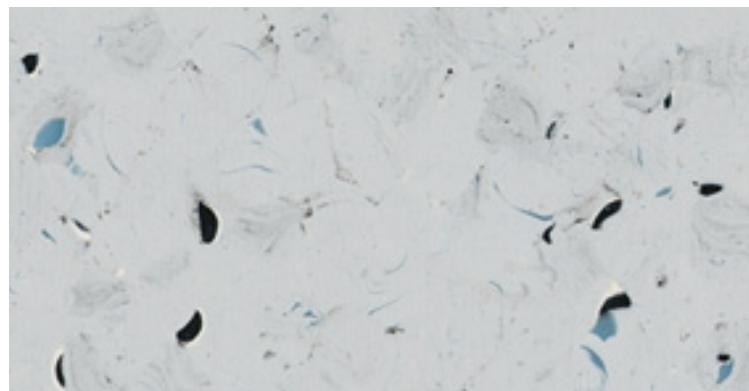
Recommended applications include electronics manufacturing (wafer fabrication, product assembly, inspection and storage), laboratories and clean rooms, also healthcare facilities including operating theatres, anaesthetising areas, intensive-care units and radiology departments.

## OHMEGA EC



Frosty Glen **6005**

w/r 9834



Morning Dew **6006**

w/r 6006

LRV 53



# ESD RESISTANCE CLAIMS & TESTING

## SUMMARY OF RESISTANCE CLAIMS BY STANDARD AND PRODUCT

Product:	EN 1081 R1 - R2	EN 1815	IEC 61340 - 4-1 Rtg	IEC 61340 - 4-5	ESD s7.1	BS2050	JSP 482
Polyflor SD	1 x 10 <sup>6</sup> Ω- 1 x 10 <sup>9</sup> Ω	≤2.0kV	1 x 10 <sup>6</sup> Ω- 1 x 10 <sup>9</sup> Ω	N/a	1 x 10 <sup>6</sup> Ω- 1 x 10 <sup>9</sup> Ω	N/a	N/a
Finesse SD	1 x 10 <sup>6</sup> Ω- 1 x 10 <sup>9</sup> Ω	≤2.0kV	1 x 10 <sup>6</sup> Ω- 1 x 10 <sup>9</sup> Ω	N/a	1 x 10 <sup>6</sup> Ω- 1 x 10 <sup>9</sup> Ω	N/a	N/a
Palettone SD	1 x 10 <sup>6</sup> Ω- 1 x 10 <sup>9</sup> Ω	≤2.0kV	1 x 10 <sup>6</sup> Ω- 1 x 10 <sup>9</sup> Ω	N/a	1 x 10 <sup>6</sup> Ω- 1 x 10 <sup>9</sup> Ω	N/a	N/a
OHMega EC	1 x 10 <sup>4</sup> Ω- 1 x 10 <sup>6</sup> Ω‡	≤2.0kV	≤1 x 10 <sup>9</sup> Ω	<100v**	2.5 x 10 <sup>4</sup> Ω - 1 x 10 <sup>9</sup> Ω	N/a	N/a
Polyflor EC	1 x 10 <sup>4</sup> Ω- 1 x 10 <sup>6</sup> Ω	≤2.0kV	5 x 10 <sup>4</sup> Ω - 1 x 10 <sup>6</sup> Ω	<100v**	5 x 10 <sup>4</sup> Ω - 1 x 10 <sup>6</sup> Ω	N/a	N/a
Polyflor ROF†	< 5 x 10 <sup>4</sup> Ω	≤2.0kV	N/a	N/a	N/a	<5 x 10 <sup>4</sup> Ω	<5 x 10 <sup>4</sup> Ω

† Polyflor ROF flooring for explosive handling areas, no protection from short circuit on a 240/250 volt mains.

‡ When tested at min 100v

\* When tested to a geometric mean

\*\* Measured using ABEBA and Uvex approved ESD Footwear

## TESTING SERVICE

Whenever specifying a Polyflor ESD vinyl floor covering, Polyflor strongly recommends discussing your requirements with the Customer Technical Services Department. They will advise on which products are best suited for the particular application, and where no specification has been identified, will advise on the specifications used in similar installations and industries.

To ensure the whole installation meets the specification requirements Polyflor also offers a fee based, finished installation testing service.



TECHNICAL DATA	STANDARDS	Palettone SD	Finesse SD	Polyflor SD	OHmega EC	Polyflor EC	Conductive ROF†
<b>Product Format</b>							
Gauge	ISO 24346 (EN 428)	2.0mm	2.0mm	2.0mm	2.0mm	2.0mm	2.0mm
Sheet Size	ISO 24341 (EN 426)	2m x 20m	2m x 20m	2m x 20m	2m x 20m	2m x 20m	2m x 20m
Tile Size	ISO 24343 (EN 427)	-	608mm x 608mm	608mm x 608mm	-	608mm x 608mm	-
Total Weight	ISO 23997 (EN 430)	3030g/m <sup>2</sup>	3030g/m <sup>2</sup>	3400g/m <sup>2</sup>	3060g/m <sup>2</sup>	3500g/m <sup>2</sup>	3300g/m <sup>2</sup>
<b>Performance Requirements</b>							
General Performance	ISO 10581 (EN 649)	Conforms	Conforms	Conforms	Conforms	Conforms	Conforms
	ASTM F1913	Conforms	Conforms	Conforms	Conforms	Conforms	Conforms
	ASTM F1700	-	Conforms	Conforms	-	Conforms	-
Use Area	ISO 10874	34, 43	34, 43	34, 43	34, 43	34, 43	34, 43
Slip Resistance	DIN 51130	R9	R9	R9	R9	-	-
	EN 13893	Class DS	Class DS	Class DS	Class DS	Class DS	Class DS
Binder Content	ISO 10581	Type I	Type I	Type II	Type I	Type II	Type II
Abrasion Resistance	EN 660-2	Group P	Group P	Group M	Group P	Group M	Group M
Reaction to Fire	EN 13501-1	Class Bfl-S1	Class Bfl-S1	Class Bfl-S1	Class Bfl-S1	Class Bfl-S1	Class Bfl-S1
	ASTM E648	Class 1	Class 1	Class 1	Class 1	Class 1	Class 1
	ASTM E662	<450	<450	-	-	-	-
	CAN/ULC S102.2	FSV < 300; SDV < 500	FSV < 300; SDV < 500	-	-	-	-
Static Electrical Propensity	EN 1815	≤2.0kV Classified as 'antistatic'	≤2.0kV Classified as 'antistatic'	≤2.0kV Classified as 'antistatic'	≤2.0kV Classified as 'antistatic'	≤2.0kV Classified as 'antistatic'	≤2.0kV Classified as 'antistatic'
Electrical Resistance	EN 1081 R1/R2	1 x 10 <sup>6</sup> - 1 x 10 <sup>9</sup> ohms	1 x 10 <sup>6</sup> - 1 x 10 <sup>9</sup> ohms	1 x 10 <sup>6</sup> - 1 x 10 <sup>9</sup> ohms	1 x 10 <sup>4</sup> - 1 x 10 <sup>6</sup> ohms‡	1 x 10 <sup>4</sup> - 1 x 10 <sup>6</sup> ohms	<5 x 10 <sup>4</sup> ohms
	ESD S 7.1	1 x 10 <sup>6</sup> - 1 x 10 <sup>9</sup> ohms	1 x 10 <sup>6</sup> - 1 x 10 <sup>9</sup> ohms	1 x 10 <sup>6</sup> - 1 x 10 <sup>9</sup> ohms	2.5 x 10 <sup>4</sup> - 1 x 10 <sup>9</sup> ohms	5 x 10 <sup>4</sup> - 1 x 10 <sup>6</sup> ohms	-
	IEC 61340-4-1	1 x 10 <sup>6</sup> - 1 x 10 <sup>9</sup> ohms	1 x 10 <sup>6</sup> - 1 x 10 <sup>9</sup> ohms	1 x 10 <sup>6</sup> - 1 x 10 <sup>9</sup> ohms	≤1 x 10 <sup>9</sup> ohms*	5 x 10 <sup>4</sup> - 1 x 10 <sup>6</sup> ohms	-
	IEC 61340-4-5	-	-	-	<100v**	<100v**	-
	BS 2050	-	-	-	-	-	<5 x 10 <sup>4</sup> ohms
	JSP 482	-	-	-	-	-	<5 x 10 <sup>4</sup> ohms
All SD products require minimum 40% RH							
<b>Sustainability</b>							
BRE Green Guide		A+ Generic	A+ Generic	A+ Generic	A+ Generic	A+ Generic	A+ Generic
Indoor Air Comfort Gold		Eurofins certified product	Eurofins certified product	Eurofins certified product	-	Eurofins certified product	-
FloorScore		Certified	Certified	Certified	Certified	-	-
Finnish M1		Certified	Certified	-	Certified	-	-
<b>Maintenance Performance</b>							
Resistance to Chemicals	ISO 26987 (EN 423)	Good resistance	Good resistance	Good resistance	Good resistance	Good resistance	Good resistance

All Polyflor commercial sheet vinyl ranges provide a continuous, impervious and hygienic flooring solution which can be confidently cleaned in accordance with recommended maintenance procedures and approved maintenance products. The implementation of an effective cleaning regime is the most important defence against infection.

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\* When tested to a geometric mean  
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