

# Polyflor EC

Polyflor Electrostatic Conductive products are recommended for use in electronics manufacturing (water fabrication; product assembly; inspection and storage); laboratories and cleanrooms, also healthcare facilities, including operating theatres; anaesthetising areas; intensive-care units and radiology departments.

## PRODUCT SPECIFICATION



- The flooring shall be Polyflor EC, as manufactured by Polyflor Ltd. of Manchester, England.
- The flooring shall be flexible PVC sheet flooring with electrostatic conductive properties in 2.0mm thickness.
- It shall be homogeneous and monolayer in construction.
- The electrostatic conductive properties must be present throughout the full product thickness.



- The flooring shall conform fully with the requirements of EN 649/ISO 10581.
- In respect of flamespread, the flooring shall have been fully tested to EN 13501-1 and certified as having Class Bfl-S1, achieving the criteria EN ISO 9239-1  $\geq 8\text{kw/m}^2$  and the mandatory requirement of EN ISO 11925-2 pass. It shall be tested to ASTM E648 and certified as having passed with a Class 1 rating, making it suitable for use in institutional, commercial and public buildings.
- With regard to EN 13893 for slip resistance, the flooring shall be classified DS, making it suitable for use in areas which are predominantly dry, but with occasional spillage.
- The product must have been fully tested for abrasion resistance to the Frick Taber test EN 660: Part 2 and be in abrasion group M, as defined in EN 649.
- With regard to electrostatic conductive properties, the flooring must conform to the requirements of HTM2. Tested to ASTM F150 the flooring must have a resistance of between  $2.5 \times 10^4$  to  $1 \times 10^6$  ohms. When tested to EN 1081 R1/R2 the flooring must have a resistance of between  $5 \times 10^4$  to  $1 \times 10^6$  ohms. When tested to ESD S71, the flooring must have a resistance of between  $5 \times 10^4$  to  $1 \times 10^6$  ohms. Tested to BS IEC 61340-4-1 2003 Rg, the flooring must have a resistance between  $5 \times 10^4$  to  $1 \times 10^6$  ohms. When tested to BS 2050 the surface resistance and resistance to earth should be between  $5 \times 10^4$  to  $2 \times 10^6$  ohms. When tested to BS EN/IEC 61340-4-5 the flooring must have a resistance of  $< 1 \times 10^9$  and chargeability  $< 100\text{v}$ .
- In accordance with EN 649, the in-use classification must be at least 34/43 as defined in EN 685: i.e. commercial areas with very heavy use; and light industrial areas with heavy use.
- The flooring must be available in 2.0 metre width, to minimise the number of joints.
- In respect of light fastness, the flooring shall have been fully tested to ISO 105-B02 Method 3 and obtain  $\geq 6$



- The flooring will achieve BRE Global Environmental Generic A+ rating in major use areas such as education and healthcare. Refer to BRE Global Ratings on [www.greenbooklive.com](http://www.greenbooklive.com)
- Generic EN 15804 Environmental Product Declaration (EPD) available on request.
- The manufacturer should provide a facility to take back and recycle waste vinyl flooring material through the Recofloor scheme.



- The manufacturer of the floorcovering must be in possession of a valid quality systems certificate, showing compliance with BS EN ISO 9001.
- The manufacturer of the floorcovering must be in possession of a valid environmental certificate, showing compliance with ISO 14001.



- A moisture test must be carried out, to ensure that the subfloor has dried out to a level consistent with the application of vinyl flooring. The test should be carried out using a hygrometer, in accordance with the instructions in BS 8203. The result should not exceed 75%RH, once equilibrium has been achieved.
- The adhesive used must be approved by Polyflor, to ensure full product compatibility.
- Products must be fully conditioned to the environment in which they are to be installed, as outlined by Polyflor.
- Installation must be carried out in accordance with BS 8203 and the instructions of Polyflor, to ensure product performance and achievement of electrical results outlined above.
- All joints must be welded to produce hygienic, continuous floors.



- At the date of issue the data presented is correct. However, Polyflor Ltd. reserves the right to make changes which do not adversely affect performance or quality.
- For information regarding handling and installation, advice on specific applications, adhesives, maintenance and chemical resistance, consult Polyflor.
- Access Panel applications require specific fitting instructions, to ensure product performance and achievement of electrical results outlined. Contact Polyflor Customer Technical Services on +44 (0)161 767 1912, or email [tech@polyflor.com](mailto:tech@polyflor.com).

