



**BCTC**  
CARPET TECHNICAL CENTRE

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Our Ref: 2400825B/6/09  
Your Ref:  
Order No: 290292157502400

9 July 2009  
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Client: Polyflor Limited  
PO Box 3  
Radcliffe New Road  
Whitefield  
Manchester  
M45 7NR

Job Title: **Electrical Resistance Tests on One Sample of Vinyl Flooring**

Material Received: 22 June 2009

Description of Sample: **Polyflor SD/Elektro SD**  
Nominal Thickness: 2.0mm  
Weight: 3.40kg/m<sup>2</sup>  
Shade: 5110 Silver Grey  
Batch No: 5Z636

Note: One sample of vinyl flooring was adhered to hardboard in accordance with the manufacturer's guidelines. Between the samples were copper grounding strips to simulate an installed sample.

Brief: BCTC were requested to carry out Electrical Resistance Tests on the sample supplied.

Uncertainty: An estimation of uncertainty of measurement has not been taken into account when making a judgement to any pass/fail criteria.

Testing Atmosphere: Unless otherwise specified the sample has been conditioned and tested, where appropriate, in the standard atmosphere for conditioning and testing textiles (BS EN ISO 139:2005) of 65±4% r.h. and 20±2°C.



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**Determination Electrical Resistance**

Three specimens from the sample were pre-conditioned for a minimum seven days at  $23 \pm 1^\circ\text{C}$  and  $50 \pm 2\%$  r.h.

The horizontal, vertical and groundable resistance from each specimen was measured, in accordance with IEC 61340-4-1. The applied voltage was 100 volts and the resistance measured using an ohm meter.

| <u>Type of Resistance</u> | <u>Electrical Resistance (ohms)</u> |
|---------------------------|-------------------------------------|
| Horizontal                | $1.4 \times 10^{10}$                |
|                           | $1.6 \times 10^{10}$                |
|                           | $1.8 \times 10^{10}$                |
|                           | $1.7 \times 10^{10}$                |
|                           | $1.1 \times 10^{10}$                |
|                           | $1.4 \times 10^{10}$                |
|                           | Mean: $1.5 \times 10^{10}$          |
| Vertical                  | $8.4 \times 10^7$                   |
|                           | $8.3 \times 10^7$                   |
|                           | $8.2 \times 10^7$                   |
|                           | $8.1 \times 10^7$                   |
|                           | $8.6 \times 10^7$                   |
|                           | $8.6 \times 10^7$                   |
| Mean: $8.4 \times 10^7$   |                                     |
| Groundable                | $1.7 \times 10^8$                   |
|                           | $1.6 \times 10^8$                   |
|                           | $1.4 \times 10^8$                   |
|                           | $1.8 \times 10^8$                   |
|                           | $1.8 \times 10^8$                   |
|                           | $2.1 \times 10^8$                   |
| Mean: $1.7 \times 10^8$   |                                     |



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The information contained on page no's 1/3 of this certificate is hereby certified to be a correct statement of the tests and investigations carried out by the British Carpet Technical Centre on the materials referred to

Signed [Signature] Date 10 July 2009

K Pillinger
Laboratory Technician

Reported By [Signature] Date 10 July 2009

P Doherty
Operational Head