



TEX Onsite
Ph 1300 785 935
28 Corporate Blvd
Bayswater VIC 3153

Test Report

Cover Sheet - Results sheet to follow: 1

Issued on - 17/06/2019 Report No. (Job No.) TEX ES09293-1

Specimen Customer: **Synergy Scaffolding** Contact: Ash Rahiminia
259 Milperra Rd
Revsby, NSW 2212 Phone: 0422 285 641

Description: PVC Insulated sheeting panels measuring 1980mm x 740mm x 20mm.

Identification: Not applicable

Notes TEX Onsite makes no recommendation or representation regarding safety, rating or suitability of the specimen or their intended usage. Test results provided within this document are for informative purposes only.

Laboratory Conditions Temperature: 19 °C +/- 2.0 °C Relative Humidity: 33 % +/- 10 %

Reference Equipment High Voltage Inc ALT 120/60 S/No 203

Procedures Electrical testing was performed on two PVC panels provided by the customer to determine dielectric properties.

The first set of tests were performed by applying 100mm x 1200mm electrodes in close contact with both sides of the sheeting. High Voltage at 50Hz AC was applied to the electrodes and across the thickness of the sheeting, commencing at zero, then increasing in steps of 5kV until the sheet broke down and punctured during test. The leakage current was measured at each 5kV step and the breakdown voltage recorded.

The second set of tests were performed using the same electrodes as the first set of tests, however only one electrode was applied in close contact with the specimen while the other electrode was suspended above the surface of the other side of the specimen. A test voltage at 105kV 50Hz was applied to represent a 66kV rating with the suspended electrode at varying distances from the surface of the specimen to determine the breakdown distance, through air. The testing was performed for one minute at each distance, the leakage current of each test was measured and the breakdown distance recorded. The following distances were intended to be used: 300mm, 200mm, 150mm, 125mm, 100mm, 75mm, 50mm, 25mm and Zero mm.

Comments *The results of the tests and/or measurements included in this document are traceable to Australian/national standards.*
TEX Onsite operates a quality management system in accordance with AS ISO/IEC 17025 and AS/NZS ISO 9001.
This report shall not be reproduced except in full.

Uncertainty of measurement was estimated to be approximately 5 to 10% at a 95% level of confidence.

Date of Testing: 11/06/2019

Tested By: Ryan Blackburn

Test Report

Job No. TEX ES09293-1

Results Sheet - Page 1

Test Details	Results
--------------	---------

Test Type	Test / Specimen	Step	Applied Voltage	Measured Current	Outcome
Breakdown Voltage Test: Electrodes applied directly to specimen.	1	A	5 kV	0.28 mA	Pass
		B	10 kV	0.62 mA	Pass
		C	15 kV	0.96 mA	Pass
		D	20 kV	1.4 mA	Pass
		E	25 kV	2.0 mA	Pass
		F	30 kV	2.4 mA	Pass
		G	35kV	* Punctured	Failed
		* Notes: The specimen punctured at 33kV between steps F and G, whilst the test voltage was being increased from 30 kV to 35kV.			

Test Type	Test / Specimen	Step	Electrode Distance	Measured Current	Outcome
Breakdown Distance Test: 105kV applied.	2	A	300 mm	4.1 mA	Pass
		B	200 mm	* Punctured	Failed
		* Notes: The specimen punctured 25 seconds after applying 105kV test voltage at a distance of 200mm during step B.			

Conclusion	Test specimen 1 withstood test voltages up to and including 30 kV. Test specimen 2 withstood the test voltage of 105 kV at a distance of 300 mm.
-------------------	--