

## **EQUIPMENT ITEMS TO BE TRANSFERRED**

The following equipment items are required to be transferred from their current site in Gqeberha to Pretoria, and require safe and appropriate packaging for the purposes of this transfer. The equipment were identified as follows:

- o 38 various equipment
- o 2 washing machines one of them specially made for Woolworth testing
- 2 sewing machines
- o 2 ovens dedicated for color fastness test lab
- o 3 weighing balances
- o 1 hot plate
- o 1 iron press

The pictures of equipment and their descriptions are presented below.



## List of instruments from PE laboratories – Identified for relocation



Q-Sun Xenon Test Chamber – with water system Application: UV exposure for colour fastness to light Relocation Lab: Bld 19A, Room A131



Humidity Chamber **Application:** This chamber only start at 23 °C upwards. **Relocation Lab**: Bld 19A, Room A131



Instron Dynatup 9250HV (Height of about 4 meters) Application: Impact tester Relocation Lab: Bld 14C, Room C10



Vertical (white) and Horizontal (brown) flammability testers. Require methane gas line. To be housed together in a fire testing laboratory. **Relocation Lab**: Bld 19C, Open Area

# **Relocation Priority 1**







Bundusman – Water Repellency Tester. Very important! Custom made equipment. Height of about 3 meters. Needs water supply. Application: used on coated materials mostly army uniform, and for PPEs Relocation Lab: Bld 19A, Room A143



Electrolux Wascator – Washing machine for Woolworths Testing. Very important (need water supply) Relocation Lab: Bld 19A, Room A143



Instron 3345 Application: tensile strength properties for fabrics) Relocation Lab: Bld 19A, Room A147





New– UV-Vis instrument (not installed yet pending the relocation decision **Relocation Lab**: Bld 19A, Room A017 (Optical lab)



2 MARTINDALE Abrasion machines Application: used for testing woven and knitted fabric how long it takes to wear out. Relocation Lab: Bld 19A, Room A143



MARTINDALE Abrasion machine **Application:** used for testing woven and knitted fabric how long it takes to wear out. **Relocation Lab:** Bld 19A, Room A143

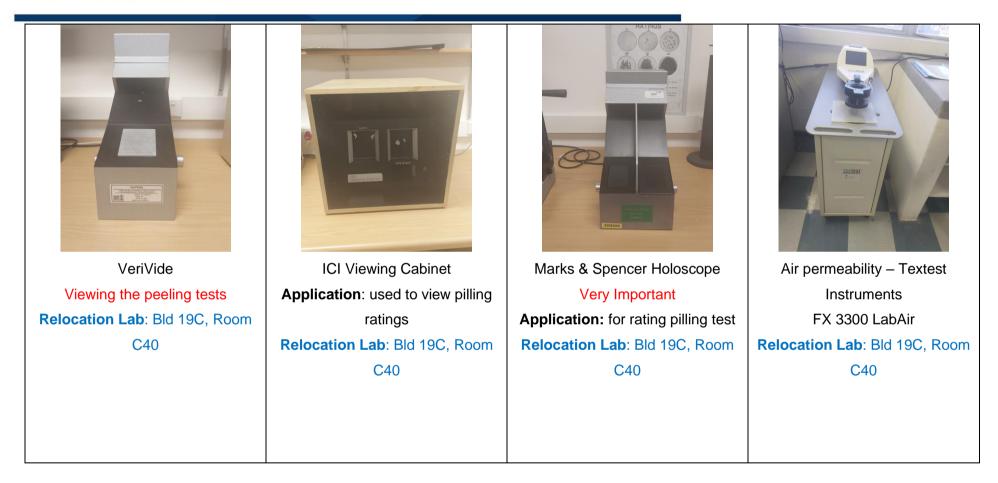


Taber Abrasion Testers (require conditioned room) Application: used for abraising carpets for automotive **Relocation Lab**: Bld 19A, Room A143

















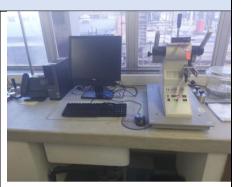
Pill Tester Application: pilling testes on knits fabrics Relocation Lab: Bld 19A, Room A143



GC-MS (Clarus 500 Gas Chromatography) NB: Good machine for business – for testing pesticides and other chemical tests Relocation Lab: Bld 19A, Room A113

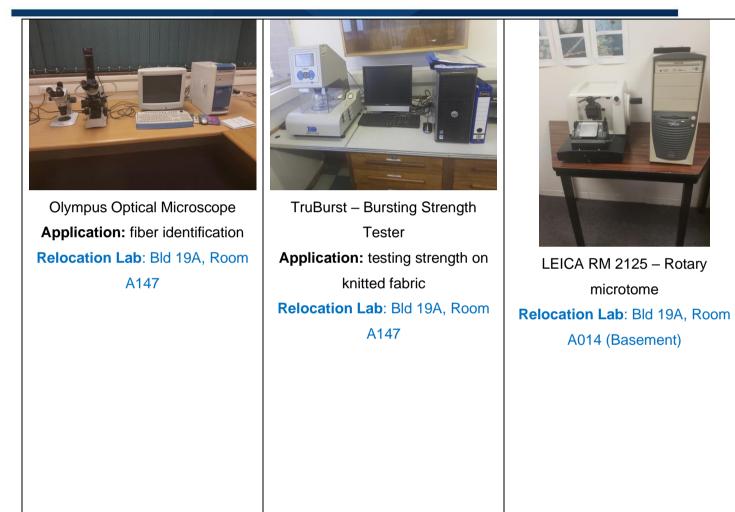
**Relocation Priority 2** 

Acoustic Tester Waiting for battery replacement Application: used for sound absorption of non-woven materials. Relocation Lab: Bld 19A, Room A143



Tear Strength – Textest Instruments Application: testing tear strength of a fabric Relocation Lab: Bld 19A, Room A143

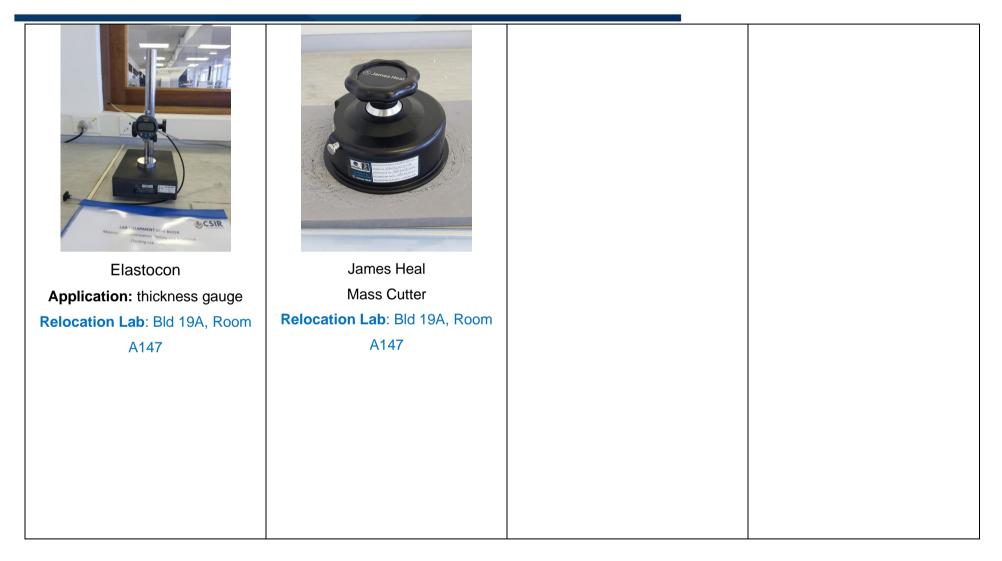






Titan Strength Tester Very impartant but require R48k to repair the power supply **Relocation Lab**: Bld 19A, Room A147







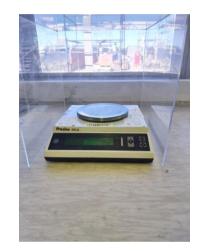
### **Relocation Priority 3**



AND GX-600 Weighing balance Max 610g & Min 0.02g D=0.001g Relocation Lab: Bld 19A, Room A147



ADAM PW 254 Weighing balance Max 250g d=0.0001g Relocation Lab: Bld 19A, Room A147



Precisca 800M Weighing balance **Relocation Lab**: Bld 19A, Room A147



MK Lab Hot Plate Relocation Lab: Bld 19A, Room A147





Optical Microscopes **Relocation Lab**: Bld 19A, Room A014 (Basement)



Relocation Lab: Bld 19A, Room A014 (Basement

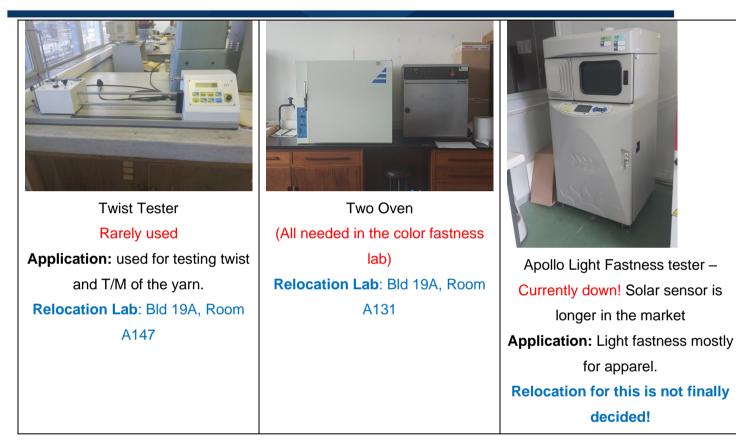


Optical Microscopes Relocation Lab: Bld 19A, Room A014 (Basement



GE-TE-FLO Permeater (require compute upgrade) Application: used for testing water absorption on PPEs and army materials Relocation Lab: Bld 19A, Room A147







Snag Tester (no longer found in the market) Application: used for pilling and snagging testing on materials Relocation Lab: Bld 19A, Room A147