

# YOUR TEXTILE LABORATORY

## RESEARCH & DEVELOPMENT, TESTING, EVALUATION, EXPERTISE

CTT Group conducts technical services, from performance and characterization analysis for testing and certification purposes including R & D, through to advanced prototyping for new applications. We also provide expert scientific and technical advice for our clients.



### ■ YOUR CLASSICS

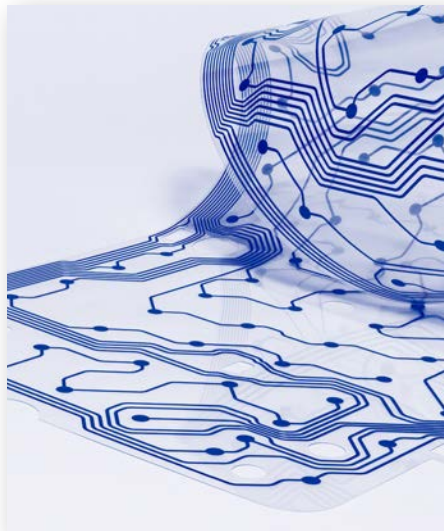
- Weave and knit pattern
- Fabric count/ Fabric weight
- Yarn size/ Fiber diameter
- Fiber content
- Pilling resistance
- Abrasion resistance
- Snagging
- Mechanical breaking
- Tearing and puncture strengths
- Dimensional change to laundering
- Dry cleaning

### ■ HIGH VISIBILITY SAFETY APPAREL

- Background materials
- Retroreflection measurements
- Garment design

### ■ FLAME RESISTANCE

- General apparel and children sleepwear
- Personal protective equipment



- FlashFire Man TM
- Transportation

### ■ COMFORT

- Thermal insulation
- Breathability
- Windproofness
- Water resistance
- Waterproofness
- Water repellency
- UV- proofness (UPF)

### ■ AGEING

- Xenon & carbon arc
- Fluorescent tube
- Salt fog
- Ageing in climatic chamber (T°C RH)
- Gelbo flex & cold flexing

### ■ TOXICITY

- Formaldehyde content
- pH



- Heavy metals
- Lead content
- Phthalates
- VOC

### ■ COLORFASTNESS

- Laundering
- Perspiration
- Crocking
- Sea water
- Light
- Swimming pool water
- Phenolic yellowing

### ■ CHEMICAL TESTS

- Specialized equipment such as: HPLC-MS, GC-MS, HS GC-MS, TD GS-MS, FT-IR
- Chemical exposure
- Permeation
- Durability to challenge chemicals