



## TEXTILE TESTING LABORATORIES INDIA PVT LTD

(A Division of Eastman Exports Global Clothing (P) Ltd.,)

# PROFILE





## TTL PROFILE

**Eastman Exports Global Clothing (P) Ltd., (EEGCPL)** is a private limited company established in 1983. This concern is having Textile Testing Laboratories India Private Limited, Called as “**TTL**”) – as its in-house laboratory. A brief profile of the organization is furnished below.

**EEGCPL** is a Government Recognized Three Star Export House engaged in the business of exporting knitted and woven garments.

### About Us:

Name	<b>Eastman Exports Global Clothing (P) Ltd</b>
Address	5/591, Sri Lakshmi Nagar Pitchampalayam Pudur
City	Tirupur.
State	Tamil Nadu
Country	India
Zip / Postal Code	641 602
Tele Phone	+91421 4301234
Fax	+91421 4301205
E-Mail	<a href="mailto:eman@vsnl.com">eman@vsnl.com</a>
Web site	<a href="http://www.eastmanexports.com">www.eastmanexports.com</a>
	<b>Status</b>
Certifications	A Government of India Approved “ <b>Export House</b> ” An <b>ISO 9001: 2000</b> Certified Quality Management System. An <b>SA 14000: 2004</b> Certification for Environmental Management System OEKO TEX, GOTS Certified
Experience in Export	<b>24</b> Years with many satisfied Buyers

**Textiles Testing Laboratories India (P) Limited (TTL)** has been set up to meet the Internal and external customer requirements. The company has many overseas customers having requirements of quality goods / products manufactured by **EEGCPL** are ensured in our laboratory.

This company meets the regulatory requirements stipulated by the local state and central governments and other regulatory bodies. Further the Eastman Exports Global Clothing (P) Ltd has decided that the **Textiles Testing Laboratories India (P) Limited (TTL)** accredited by **NABL – National Accreditation board for Testing and Calibration Laboratories (member of ILAC – International Laboratory Accreditation Cooperation)** according to **ISO / IEC 17025:2005**.



# Accreditations

ISO 17025: 2005 ACCREDITED LABORATORY & MANY RETAILER'S ACCREDITATIONS





# Approvals

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All the test carried out as per AATCC, ASTM, ISO, BS, IS, JIS and In- house test methods with this accreditation the test reports of the laboratory are valid in Europe, Swiss, UK, France, USA, Asia, India are signatories to TTL.



## **FACILITIES**

The Laboratory is equipped with state-of-the-art instruments such as, (major equipments)

- **Chromatographic instrument, Gas Chromatography mass spectrum Detector – GCMSD (Agilent)**
- **Spectrophotometers**
- **Xenon fade-o- meter (Atlas Ci3000)**
- **Bursting Strength Testers**
- **Roto vapor (Buchi), Ultra Sonicator (Crest )**
- **ICI Pill box tester**
- **Random Tumble Pilling tester**
- **Martindale Abrasion tester (SDL-Atlas),**
- **Sublimation fastness tester,**
- **Crock meter (SDL-Atlas),**
- **Incubator & Perspiration tester (Roaches),**
- **Roto Wash (SDL-Atlas),**
- **pH meter(Eutech),**
- **Soxhlet Extraction Apparatus,**
- **Pilling Viewer(Verivide),**
- **Colour Matching Cabinets (Verivide),**
- **Projection Microscope (Unilab),**
- **Humidifier + Air Conditioner (Emerson),**
- **Washcator (Electrolux),**
- **Washers (Whirlpool) & Dryer (Whirlpool),**
- **Miele Washing machine**

## **MAJOR TESTING FACILITIES**

### **GAS CHROMATOGRAPHY MASS SPECTRUM DETECTOR – GCMSD (AGILENT)**

- ▶ Analytical Chemical Tests (Restricted Substance Testing)
  - Banned Amines – Azo
  - Phthalate Content
  - Organo metallic tin
  - Chlorinated organic carrier
  - Chlorophenols (PCP etc..)
  - Formaldehyde Content
  - pH Value
  - Odor test
  - Fiber Content



### **Durability & Performance Tests**

- ▶ Colour Fastness
  - Colour fastness to washing
  - Colour Fastness to perspiration
  - Colour Fastness to water
  - Colour Fastness to chlorinated water
  - Colour Fastness to sea water
  - Colour Fastness to chlorine & non chlorine bleach
  - Colour fastness to saliva
  - Colour fastness to rubbing
  - Colour fastness to dye transfer in storage
  - Colour Fastness to dry heat & Hot pressing
  - Instrumental colour assessment (DE\*) & Whiteness Index measurement



▶ Durability

- Bursting Strength Tester
- Pilling resistance – Pill box
- Pilling resistance – Martindale
- Abrasion resistance – Martindale
- Dimensional stability to washing
- Spirality
- Appearance after washing
- Smoothness appearance after washing
- Print durability as per UK retailer's methods



▶ Specification tests

- Weight per unit area (gsm)
- Yarn count
- Fabric count
- Stitch length
- Course length



▶ Safety tests

- Mechanical safety of children's clothing as per BS 7907
- Snap & small parts attachment tests as per EN71, 16CFR1500, ASTM F963, ASTM D7142 etc..



▶ Performance Tests

- Wicking properties of textiles
- Water absorbency
- Drying Rate



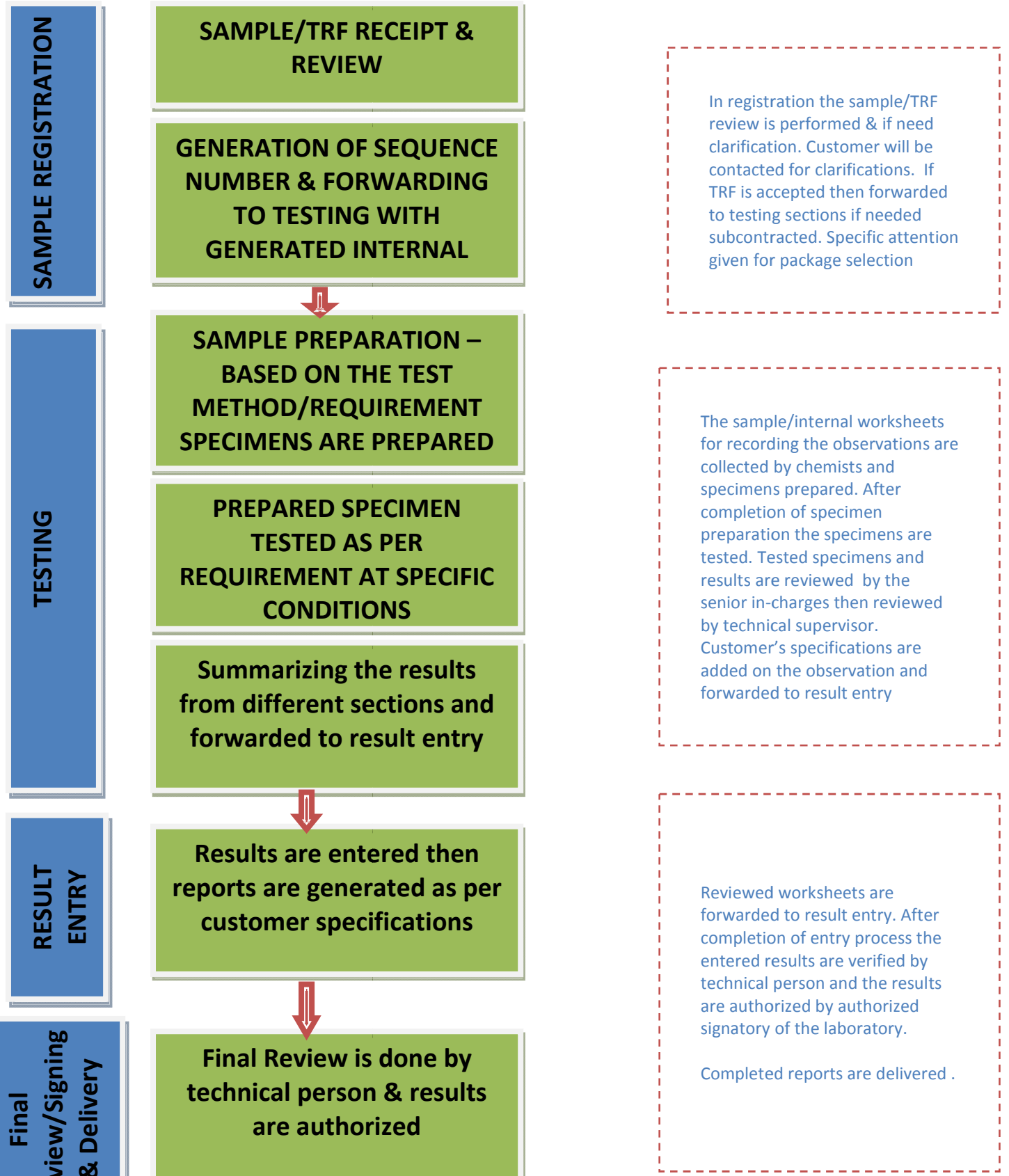
These testing can per performed in many international standards like



Also in retailer's in house methods.



## PROCESS FLOW CHART OF THE LABORATORY





## USEFUL UNIT CONVERSION TABLE

CONVERSION FROM	TO	CONVERSION FACTOR (Multiplication)
<b><u>DISTANCE</u></b>		
Yard	Meter	0.9144
Feet	Centimeter	30.48
mm	µm	1000
Inch	cm	2.54
<b><u>MASS</u></b>		
Ounce	gram	28.34952
Gram	grain	15.43236
Pound	gram	453.5924
Gram	mg	1000
mg	µg	1000
<b><u>FORCE</u></b>		
Pound Force	Newton	4.448222
Pound Force	Ounce Force	16
Kilo Newton	Newton	1000
Kilogram Force	Newton	9.80665
Newton	Decanewton	0.1
Centinewton	Newton	0.01
Millinewtons	Newton	0.001
<b><u>PRESSURE</u></b>		
Pound Force per sq inch (lbs/inch <sup>2</sup> ) (psi)	Kilo Newton per sq. meter (kPa)	6.89476
Kilo Newton per sq. Meter (kPa)	Pound Force per sq inch (lbs/inch <sup>2</sup> ) (psi)	0.1450377
Kilo Newton per sq. meter (kpa)	Newton/Sq. meter	1000
Kilo Newton per sq. meter (kPa)	Kilogram per sq. cm	0.010193
<b><u>YARN COUNT</u></b>		
English Count (Ne)	Tex	590.5 / Ne
English Count (Ne)	Denier	5315 / Ne
Tex	Denier	9
Tex	Decitex	10
<b><u>FABRIC CONSTRUCTION</u></b>		
Threads per cm	Threads per inch	2.54
<b><u>FABRIC MASS</u></b>		
Grams per Sq. Meter	Ounces Per Sq. Yard	0.0294
<b><u>MASS CONCENTRATION</u></b>		
mg/kg (PPM) (mg/l)	µg/kg (µg/l)	1000
Percent (%)	mg/kg	10,000

