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|  | ACCREDITATION DOCUMENT | F-06/02 Issue Date: 10/08/15 Rev. No: 07 LAB 007 |
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Accreditation No: LAB 007

Awarded to

**SGS Consumer & Retail Services - Laboratory
H-3/3, Sector 5, Korangi Industrial Area, Karachi – 74900,
Pakistan.**

The scope of accreditation is in accordance with the standard specifications outlined in the following page(s) of this document. The accredited scope shall be visible and legible in areas such as customer service, sample-receiving section etc and shall not mislead its users.

The accreditation was first time granted on **02-11-2004** by Pakistan National Accreditation Council.

The laboratory complies with the requirements of **ISO/IEC 17025:2005**.

The accreditation requires regular surveillance, and is valid until **01-02-2020**.

The decision of accreditation made by Pakistan National Accreditation Council implies that the organization has been found to fulfill the requirements for accreditation within the scope.

The organization however, itself is responsible for the results of performed measurements/tests.

PAKISTAN NATIONAL ACCREDITATION COUNCIL

Date

Director General

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Testing Laboratory.

Accreditation Scope of Consumer & Retail Services
Laboratory, Karachi, Pakistan

Permanent laboratory premises **H- 3/3, Korangi Industrial Area, Karachi**

| Materials/Products tested | Testing field (e.g. environmental testing or mechanical testing) | Types of test/ Properties measured | Reference to standardized method (e.g. ISO 14577-1:2003)/ Internal method reference |
|--------------------------------------|---|---|--|
| All Textile Materials/Product | Physical | Fabric weight Unit Area/Length | ASTM D 3776-2013 , ISO 3801-1977/ Weighing Balance |
| | Physical | Ends & Picks (Woven Fabric) | ASTM D 3775-2012/ Pick Counter |
| | Physical | Stitch Density (Knitted Fabric) | ASTM D 3887-2008, BS 5441-88/ Pick Counter |
| | Physical | Fabric Shrinkage | AATCC 135:2012, ISO 3759:2011,5077:2007,6330:2012 / Wascator, Top Loading |
| | Physical | Garment Shrinkage | AATCC 150:2012,ISO 3759:2011,5077:2007,6330:2012 / Wascator, Top loading |

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| All Textile Materials/Product | Physical | Appearance after wash | AATCC124:2010/ SA Replica |
| | Physical | Skewness after wash | AATCC179:2010/ Wascator & Top Loading |
| | Physical | Colour fastness to washing | AATCC 61:2013, BS EN ISO 105:CO6:2010, ISO 105: CO1-CO5:1989/ Laundrometer , Grey Scale |
| | Physical | Colour fastness to perspiration | AATCC 15:2009,BS EN ISO 105-EO4:2013/ Perspiration tester ,grey scale |
| | Physical | Colour fastness to rubbing | AATCC 8:2013,BS EN ISO 105-X12:2016/ Crockmeter , Grey scale |
| | Physical | Colour fastness to water | AATCC 107:2013,BS EN ISO 105-EO1:2013/ Perspiration tester ,grey scale |
| | Physical | Colour fastness to sea water | AATCC 106:2013,BS EN ISO 105-EO2:2013/ Perspiration tester ,grey scale |

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| All Textile Materials/Product | Physical | Colour fastness to dry-cleaning | BS EN ISO 105-DO1:2010/ Laundrometer , Grey Scale |
| | Physical | Colour fastness to Non Chlorine Bleach | AATCC 172:2010/ Top Loading Grey Scale |
| | Physical | Determination of the Tensile Strength & Elongation of woven fabric. a) Garb Method b) Strip method | ASTM 5034-2013, ISO 13934-2:2014, ASTM 5035-2015, ISO 13934-1:2013 / Universal Strength Tester |
| | Physical | Bursting Strength | ASTM D3786-2013 / Mullen Burst Tester |
| | Physical | Seam Slippage | ASTM 434-95, BS 3320:1988 / Universal Strength Tester |
| | Physical | Tearing Strength Elmatar | ASTM D 1424-2013, ISO 13937-1:2000 / Pendulum tear tester |
| | Physical | Spray rating test | AATCC 22:2014,ISO 4920:2012/ Spray Tester , Replica |
| | Physical | Oil Repellency: Hydrocarbon Resistance Test | AATCC118:2007, ISO 14419:2010/ Oil Kit ,Photographic Replica |

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| All Textile Materials/Product | Physical | Abrasion Resistance | ISO12947-2:1998 + COR1 : 2002/ Nu- Martindale Abrasion tester , Grey Scale |
| | Physical | Pilling Resistance | ISO12945-2:2000 ISO 12945-1:2000/ ICI Pilling Box, Nu- Martindale Abrasion tester , Photographic Replica |
| | Physical | Colourfastness to domestic & commercial laundering using a non-phosphate reference detergent incorporates a low temperature bleach activator. | ISO 105 CO8:2010/ Laundrometer , Grey Scale |
| | Physical | Colourfastness to domestic & commercial laundering- Oxidative bleach response using a non-phosphate reference detergent incorporate a low temperature bleach activator | ISO 105 CO9:2001/ Laundrometer , Grey Scale |
| | Physical | Colourfastness to Chlorinated water | ISO 105 EO3:2010,BS EN ISO 105 EO3:2010/ Laundrometer , Grey Scale |

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| All Textile Materials/Product | Physical | Colourfastness to Dry Cleaning | AATCC 132:2009/ Laundrometer , Grey Scale |
| | Physical | Phenolic Yellowing of Textile | ISO 105 X18:2007/ Oven, Grey Scale |
| | Physical | Colourfastness to Heat: Hot Pressing | ISO 105 X11:1994, AATCC 133:2013/ Thermoplate , Grey Scale |
| | Physical | Yarn Count | ISO-7211-5:1984 / Scale , Balance |
| | Physical | Seam Strength | ISO-13935-2:2014 / Universal Strength Tester |
| | Physical | Seam Slippage – Fixed seam opening method | ISO-13936-1:2004 / Universal Strength Tester |
| | Physical | Seam Slippage – Fixed Load Method | ISO-13936-2:2004 / Universal Strength Tester |

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| All Textile Materials/Product | Physical | Torque Test | 16CFR1500.51/ 52/53:2012 / Torque Force Guage |
| | Physical | Tension Test | 16CFR1500.51/ 52/53:2012 / Snap Tester |
| | Physical | Sharp Edges | 16 CFR 1500.49:2012 / Sharpe Edge Tester |
| | Physical | Sharp Points | 16 CFR 1500.48:2012 / Sharp Point Tester |
| | Physical | Small Parts | 16 CFR Part 1501:2015 / Small Parts Cylinder |
| | Physical | Stretch & Recovery | ISO 14704-1:2005,BS EN ISO 14704-1:2005/ Universal Strength Tester |
| | Physical | Color Fastness to Light | ISO 105 B02:2013 |
| | Physical | pH of aqueous extract | AATCC 81:2012, ISO 3071:2005, GB/T 7573: 2009 / pH Meter |

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| All Textile Materials/Product | Physical | Soil release oily stain release method | AATCC 130:2010 / Top Loading , soil Release stain replicas |
| | Chemical | Azo Amines | EN 14362-1:2012, EN 14362-3:2012, GB/T 17592:2011, GB/T 23344:2009 / GC-MS / HPLC |
| | Chemical | Formaldehyde Content | ISO 14184-1/2 : 2011,AATCC 112:2008, JPLAW 112:1975,JISL 1041:2011, GB/T 2912.1:2009 / UV Spectrophotometer |
| | Chemical | 1-Fibre Analysis (Qualitative) 2-Fibre Analysis (Quantitative) | AATCC20-2013, AATCC 20A-2013, ISO 1833:2006 / Oven , Microscope |
| | Chemical | Ortho Phenyl Phenol (OPP) | In-House Method / GC-MS |
| | Chemical | PFOA / PFOS / PFOS-NH2 | CEN/TS 15968:2010 / HPLC-MS |
| | Chemical | Selected volatile Organic Compounds VOC's) DMFa | Derived method based on EPA Method 8260C EPA Method 3585 EPA Method 5000 / GC-MS |

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| All Textile Materials/Product | Chemical | Polycyclic Aromatic hydrocarbons (PAH) | Derived method based on EPA 610, AFPS GS 2014:01 PAK / GC-MS |
| | Chemical | Flammability of Textiles | 16CFR Part 1610:2012, ASTM D 1230:2010 / Flammability Tester |
| | Physical | Colour Fastness To Light | ISO 105 BO2:2014, BS EN ISO 105 BO2:2014 / Xenon Light Fastness |
| | Chemical | Chlorinated Organic Carrier | DIN 54232:2010 / GC-MS |
| | Chemical | Organotin | Derived method based on BS ISO 17353:2004, DIN EN ISO 17353:2005, ISO 17353:2004, DIN 38407-13:2001 /GC-MS |
| | Chemical | TCP, TeCP, PCP (Alkaline Distillation) | §64LFGB, B 82.02.08-2001, DIN 53313:1993, ISO 17070: 2015 / GC-MS , GC-ECD |
| | Chemical | Extractable Heavy Metal | OKO Tex Standard 100 , ISO 105 E04:2013 / ICP-MS |
| | Chemical | Safety of Toys EN 71-3 | EN 71-3 :2013 +A1 :2014, EN71-3:1994 + A1:2000 , AC:2002 / ICP-MS |

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|---|---|---|--|
| All Textile Materials/Product | Chemical | TCP, TeCP, PCP (Steam Distillation) | §64LFGB, B 82.02.08-2001, ISO 17070: 2015 / GC-MS, GC-ECD |
| | Chemical | Determination of Allergeneous & Carcinogenic dyestuff | DIN 54231:2005 / HPLC-DAD, HPLC-MS |
| | Chemical | Determination of Alkylphenol & Alkylphenol ethoxylate | ISO 18218-1:2015 , ISO 18254-1:2016 / HPLC-MS , GC-MS |
| Textile/Plastics/ | Chemical | Phthalates Content | CPSC-CH-C1001-09.3, EN 14372:2004, ISO 14389:2014 / GC-MS |
| | Chemical | Polycyclic Aromatic hydrocarbons (PAH) | Derived method based on EPA 610, AFPS GS , 2014:01 PAK /GC-MS |
| Textile/ Wet Paint/Surface Coating Materials | Chemical | Lead & Cadmium Content | Derived method based on US Public law 110-314,ASTM E 1613-04,ASTM E 1645,CPSC-CH-E1003-09.1,Part 1303, title 16 CFR, USA ,CPSC-CH-E1002-08.1, ASTM F963-96a clause 4.35, ASTM F963-03 clause 4.35 ASTM F963-07 clause 4.35 / AAS , ICP-OES ,ICP-MS |
| | Chemical | Lead , Cadmium, Mercury , Chrome & Chrome VI | CPSC-CH-E1001-08.1 CPSC-CH-E1003-09.1 CPSC-CH-E1002-08.1 ,EU packaging & packaging waste directive 94/62/EC, EPA 3050B:1996, EPA 3051:1996, EPA 3052:1996, IEC 62321 Ed1.2008 / ICP-OES |

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| Metal | Chemical | Nickel Release | EN-1811:2011 + A1:2015, EN-12472:2005 +A1:2009 / AAS, ICP-OES ,ICP-MS |
| | Chemical | Lead & Cadmium Content | US Public law 110-314,CPSC-CH-E1001- 08.1 / AAS , ICP-OES , ICP-MS |
| | Chemical | Lead , Cadmium, Mercury , Chrome & Chrome VI | CPSC-CH-E1001-08.1 CPSC-CH-E1003-09.1 CPSC-CH-E1002-08.1 EU packaging & packaging waste directive 94/62/EC, EPA 3050B:1996, EPA 3051:1996, EPA 3052:1996, IEC 62321 Ed1.2008 / ICP-OES |
| Leather | Chemical | Dimethyl Fumarate | In-House Method / GC-MS |
| | Chemical | Formaldehyde Content | ISO 17226-2:2008 / UV- Spectrophotometer |
| | Chemical | Cr VI Content | ISO 17075:2007, EN 420:2003 +A1 2009 , CEN/TS/14495:2003 / UV- Spectrophotometer |

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| Leather | Chemical | Azo Amines | ISO 17234-1 :2015 , ISO 17234-2:2011 / GC-MS / HPLC |
| | Chemical | pH | ISO 4045:2008, GB/T 2724:2005 / pH meter |
| | Chemical | Selected volatile Organic Compounds VOC's) DMFa | Derived method based on EPA Method 8260C, EPA Method 3585, EPA Method 5000 / GC-MS |
| | Chemical | Determination Of Matter soluble Dichloromethane & Free fatty acid | ISO 4048: 2008 / Oven |
| | Chemical | Organotin | Derived method based on BS ISO 17353:2004, DIN EN ISO 17353:2005, ISO 17353:2004, DIN 38407-13:2001 / GC-MS |
| | Chemical | Determination of Alkylphenol & Alkylphenol ethoxylate | ISO 18218-1:2015 , ISO 18254-1:2016 / HPLC-MS /GC-MS |
| | Chemical | Ortho Phenyl Phenol (OPP) | In-House Method / GC-MS |

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|----------------------------------|---|--|---|
| Leather | Chemical | TCP, TeCP, PCP (Steam Distillation) | ISO 17070:2015, §64LFGB, B 82.02.08-2001 / GC-MS, GC-ECD |
| | Chemical | Formaldehyde | ISO 17226-1:2008 / HPLC-DAD |
| Polymer | Chemical | Lead , Cadmium, Mercury , Chrome & Chrome VI | CPSC-CH-E1001-08.1 CPSC-CH-E1003-09.1 CPSC-CH-E1002-08.1 EU packaging & packaging waste directive 94/62/EC, EPA 3050B:1996, EPA 3051:1996, EPA 3052:1996, IEC 62321 Ed1.2008 / ICP-OES |

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