

	ACCREDITATION DOCUMENT	F-06/02 Issue Date: 26/05/08 Rev. No: 05 LAB 006
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Testing Laboratory

Accreditation Scope of Leather Research Centre (LRC), PCSIR, Karachi

Permanent laboratory premises

Materials / Products tested	Types of test / Properties measured	Range of measurement	Minimum detection limit	Uncertainty Measurement (Where applicable) MU (\pm)	Standard specification/ Techniques/ equipment used
Leather	Volatile Matter	3.0 % - 50%	2.5%	0.40%	SLC-3 Oven Analytical balance
	Fat Content	1.0 %– 25%	0.5%	0.05%	SLC-4 Oven Analytical balance Soxhlet apparatus
	Total Ash Content	0.5 %– 9.5 %	0.5%	0.07%	SLC-6, D 2617-96 Analytical balance Muffle Furnace
	Chromium Oxide	0.5 % – 5.5 %	0.5%	0.02 %	SLC-8 Analytical balance
Aqueous Extract of Leather	pH Value	1 - 14	0.1	0.07	SLC-13 EN ISO-4045 Shaker pH meter Analytical balance
Oil & Fat (Natural)	Saponification Value	50 – 300	50	0.78	ASTM D-5558-95 Analytical balance Water bath
Leather	Tensile Strength	0.1 N – 5000 N	0.1 N	0.22 N	ASTM D 2209-95/ IUP-6/ Universal Testing Machine
	Elongation Break	at 0.01% - 100 %	0.01 %	0.24%	ASTM D 2211-94/ IUP-6/ Universal Testing Machine

Date

Director



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Materials / Products tested	Types of test / Properties measured	Range of measurement	Minimum detection limit	Uncertainty Measurement (Where applicable) MU (\pm)	Standard specification/ Techniques/ equipment used
	Bursting Strength	0.01 kg – 500 kg	0.01 kg	0.82 kg	IUP-9/ Universal Testing Machine.
	Flexing Endurance (Physical test)	1 to 999999 flex	1 Flex	1.0 Flex	IUP-20/ Bally Miniflexometer.
	Colour Fastness (Wet & Dry) (Physical test)	1rev to 99999 rev grading 5-1 (change in colour) grading 5-1 (Stain on Felt)	1rev Grade 1	1.0	BS 1006 UK-LC SLF 5/ Color Fastness Tester.
	Measurement of Softness	0.2 mm – 10 mm	0.1mm	0.1 mm	IUP 36/ Softness Tester.
Water	Total Hardness	5ppm to 1000 ppm	5 ppm	2 ppm	APHA 2340 C 20 th Editions/Electronic Balance.
Water & Waste Water	Sulphide	5ppm to 1000 ppm	5ppm	4 ppm	APHA 4500 S ⁻² 20 th Editions/Electronic Balance.

Date

Director