



TC-5389.

ELECTRICAL RESEARCH AND DEVELOPMENT ASSOCIATION

(Accredited by the National Accreditation Board for Testing and Calibration Laboratories, Govt. of India)

ERDA Road, Makarpura Industrial Estate, Vadodara-390 010, India.

EPABX : +91 (0265) 2642942, 2642964, 2642377, 3043128 / 29 / 30 / 31 / 33

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RP-2324-033917

ULR NO : TC538924000004662F

TEST REPORT

SHEET 1 of 5

NAME & ADDRESS OF CUSTOMER Dahanu Rubber Gloves Mfg. Company Village Saravali, Jawahar Marg, Dahanu Road (East) - 401 602. Dist. Palghar ,Maharashtra State.	REPORT NO.: RP-2324-033917	
	DATE OF ISSUE: 27-02-2024	
	CUSTOMER REF. NO: Letter	
	DATED: 29-08-2023	
	DATE OF SAMPLE RECEIPT	DATE OF TESTING
	29-08-2023	16-02-2024 to 24-02-2024
SAMPLE DESCRIPTION (As provided by customer) Rubber hand gloves for electrical purpose Type of gloves : 3 Length of Gloves : 355 mm (Declared by the customer) Material : Latex (Natural Rubber) Working Voltage : 7500 Volts Proof (Test) Voltage : 17000 Volts Make: JYOT	SAMPLE IDENTIFICATION Printing :	
		
	ERDA Sample Code : ERDA-00539255	
TEST DETAILS As per sheet 2 of 5	TEST SPECIFICATION As per sheet 2 of 5	
REMARKS : 1) The sample does not conform to the requirement of test specification for the test at Sr. No. 1 as per sheet 2 of 5. 2) The sample conforms to all requirements of test specification for the tests at Sr. Nos. 2 to 11 as per sheet 2 of 5.		
 CHECKED BY	 S. B. Patel APPROVED BY	

Note:

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TEST DETAILS :

Sr. No.	Cl. No. and Test Specification	Test Particulars.
1	As per Cl. No. 6.1.1.a of IS 4770 : 1991	Thickness
2	As per Cl. No. 6.1.1.b of IS 4770 : 1991	Tensile strength
3	As per Cl. No. 6.1.1.c of IS 4770 : 1991	Elongation at break
4	As per Cl. No. 6.1.1.e of IS 4770 : 1991	Tensile stress at 200 percent elongation
5	As per Cl. No. 6.1.1.d of IS 4770 : 1991	Tension set
6	As per Cl. No. 6.1.1.f of IS 4770 : 1991	Tear strength
7	As per Cl. No. 6.1.1.g of IS 4770 : 1991	Tensile strength and elongation at break after heat ageing
8	As per Cl. No. 6.1.1.h of IS 4770 : 1991	Puncture resistance
9	As per Cl. No. 6.1.1.j of IS 4770 : 1991	Moisture absorption
10	As per Cl. No. 6.1.1.n of IS 4770 : 1991	Proof voltage & Leakage current
11	As per Cl. No. 6.1.1.p of IS 4770 : 1991	Breakdown voltage


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SHEET 3 of 5

Sr. No	Particulars of Tests and Cl. No.	Requirement as per Specification	Obtained value	Remarks
1	Thickness of gloves [As per Cl. No. 6.1.1.a of IS: 4770-1991] -Thickness, mm -at Crotch area -at Non-crotch area	Min. 0.80 Max. 1.50 Min. 0.95 Max. 1.50	1.708 1.964 1.711 1.872	Does not conform
2	Tensile strength [As per Cl. No. 6.1.1.b of IS: 4770-1991] Tensile strength, MPa	Min. 10	29.0	Conforms
3	Elongation at break [As per Cl. No. 6.1.1.c of IS: 4770-1991] Elongation at break, %	Min. 500	725	Conforms
4	Tensile stress at 200 percent elongation [As per Cl. No. 6.1.1.e of IS: 4770-1991] Tensile stress at 200 percent elongation, MPa	Max. 2.1	1.6	Conforms
5	Tension set [As per Cl. No. 6.1.1.d of IS: 4770-1991] Tension set, %	Max. 25	5	Conforms
6	Tear strength [As per Cl. No. 6.1.1.f of IS: 4770-1991] Tear strength, kN/m	Min. 14	25.4	Conforms



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Sr. No.	Particulars of Tests and Cl. No.	Requirement as per Specification	Obtained value	Remarks
7	Tensile strength and elongation at break after heat ageing [As per Cl. No. 6.1.1.g of IS: 4770-1991] - Change in tensile strength, after accelerated ageing at 70 ± 2 °C for 168 h, percent of original - Change in elongation at break, after accelerated ageing at 70 ± 2 °C for 168 h, percent of original	Min. 90 Min. 80	94.9 94.5	Conforms Conforms
8	Puncture resistance [As per Cl. No. 6.1.1.h of IS: 4770-1991] Puncture resistance, kN/m	Min. 18	24.8	Conforms
9	Moisture absorption [As per Cl. No. 6.1.1.j of IS: 4770-1991] Moisture absorption, mg/cm ²	Max. 5	1.63	Conforms
10	Proof voltage & Leakage current [As per Cl. No. 6.1.1.n of IS: 4770-1991] - Proof voltage after water immersion of glove at 27 ± 2 °C for 1 hour. - Leakage current at working voltage (7500 V), μ A - Leakage current at proof voltage (17000 V), mA	Sample shall withstand 17000 V (rms) for 1 Minute Max. 4000 Max. 14	Withstood 3300 9	Conforms Conforms Conforms
11	Breakdown voltage [As per Cl. No. 6.1.1.p of IS: 4770-1991]	Sample shall withstand 20000 V (rms)	Sample withstood 36000 V (rms)	Conforms

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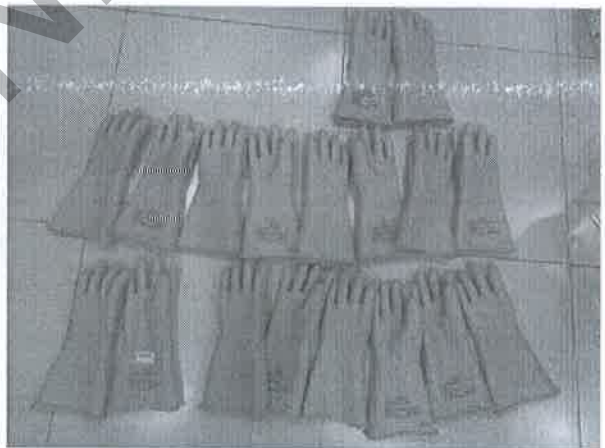
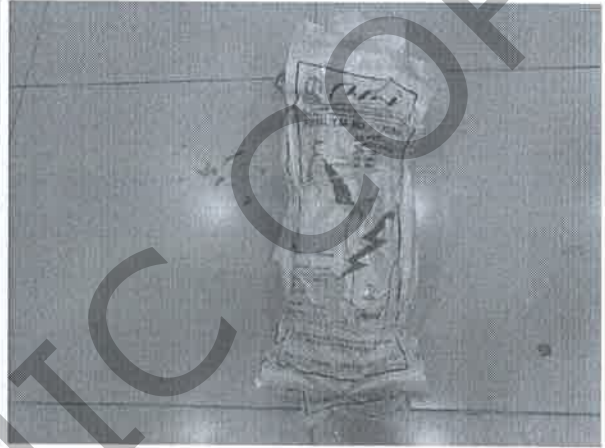


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***** End of Test Report *****

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