



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-2324-033914

ULR NO : TC538924000004660F

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-2324-033914**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 : 1
Length of Gloves : 355 mm (Declared by the customer)
Material : Latex (Natural Rubber)
Working Voltage : 650 Volts
Proof (Test) Voltage : 5000 Volts
Make: JYOT

SAMPLE IDENTIFICATION

Printing :



ERDA Sample Code : ERDA-00539253

TEST DETAILS

As per sheet 2 of 5

TEST SPECIFICATION

As per sheet 2 of 5

REMARK : The sample conforms to all requirements of test specification for the test at Sr. Nos. 1 to 11 as per sheet 2 of 5.

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Note:

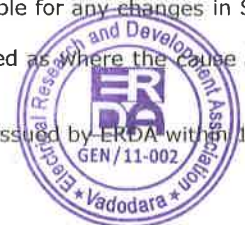
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6. Particulars of manufacturer/supplier, given in this report are based on information supplied by the customer, along with the test request/sample. ERDA does not assume any responsibility for the correctness of the information for above mentioned Sample Under Test (SUT). ERDA will not be responsible for any changes in SUT made after the test. This test report is given as per instrument status while testing.
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S. B. Patel
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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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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. 0.50 Max. 0.95 Min. 0.55 Max. 0.95	0.807 0.927 0.854 0.913	Conforms Conforms
2	Tensile strength [As per Cl. No. 6.1.1.b of IS: 4770-1991] Tensile strength, MPa	Min. 17	30.6	Conforms
3	Elongation at break [As per Cl. No. 6.1.1.c of IS: 4770-1991] Elongation at break, %	Min. 600	800	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	1.5	Conforms
5	Tension set [As per Cl. No. 6.1.1.d of IS: 4770-1991] Tension set, %	Max. 20	6.66	Conforms
6	Tear strength [As per Cl. No. 6.1.1.f of IS: 4770-1991] Tear strength, kN/m	Min. 14	28.7	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. 80 Min. 80	90.8 93.4	Conforms Conforms
8	Puncture resistance [As per Cl. No. 6.1.1.h of IS: 4770-1991] Puncture resistance, kN/m	Min. 18	24.4	Conforms
9	Moisture absorption [As per Cl. No. 6.1.1.j of IS: 4770-1991] Moisture absorption, mg/cm ²	Max. 5	1.39	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 (650 V), μ A - Leakage current at proof voltage (5000 V), mA	Sample shall withstand 5000 V (rms) for 1 Minute Max. 400 Max. 4	Withstood 300 3.3	Conforms Conforms Conforms
11	Breakdown voltage [As per Cl. No. 6.1.1.p of IS: 4770-1991]	Sample shall withstand 6000 V (rms)	Sample withstood 15000 V (rms)	Conforms

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

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