



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, Vadodra-390 010, India.

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RP-2324-033916

ULR NO : TC538924000004661F

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-2324-033916**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 : 2

Length of Gloves : 355 mm (Declared by the customer)

Material : Latex (Natural Rubber)

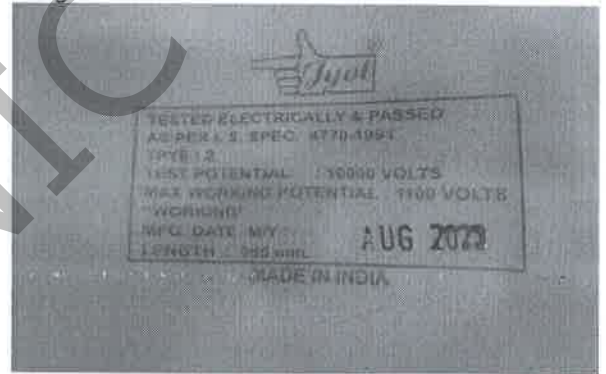
Working Voltage : 1100 Volts

Proof (Test) Voltage : 10000 Volts

Make: JYOT

SAMPLE IDENTIFICATION

Printing :



ERDA Sample Code : ERDA-00539254

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.

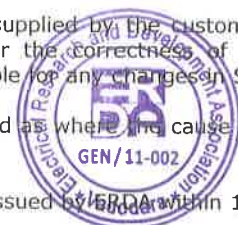
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S. B. Patel
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TEST DETAILS :

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. 0.70 Max. 1.25 Min. 0.80 Max. 1.25	1.224 1.246 1.226 1.244	Conforms Conforms
2	Tensile strength [As per Cl. No. 6.1.1.b of IS: 4770-1991] Tensile strength, MPa	Min. 10	28.9	Conforms
3	Elongation at break [As per Cl. No. 6.1.1.c of IS: 4770-1991] Elongation at break, %	Min. 500	640	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	31.0	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	93.1 93.8	Conforms Conforms
8	Puncture resistance [As per Cl. No. 6.1.1.h of IS: 4770-1991] Puncture resistance, kN/m	Min. 18	24.7	Conforms
9	Moisture absorption [As per Cl. No. 6.1.1.j of IS: 4770-1991] Moisture absorption, mg/cm ²	Max. 5	1.27	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 (1100 V), μ A - Leakage current at proof voltage (10000 V), mA	Sample shall withstand 10000 V (rms) for 1 Minute Max. 600 Max. 8	Withstood 500 5	Conforms Conforms Conforms
11	Breakdown voltage [As per Cl. No. 6.1.1.p of IS: 4770-1991]	Sample shall withstand 12000 V (rms)	Sample withstood 30000 V (rms)	Conforms

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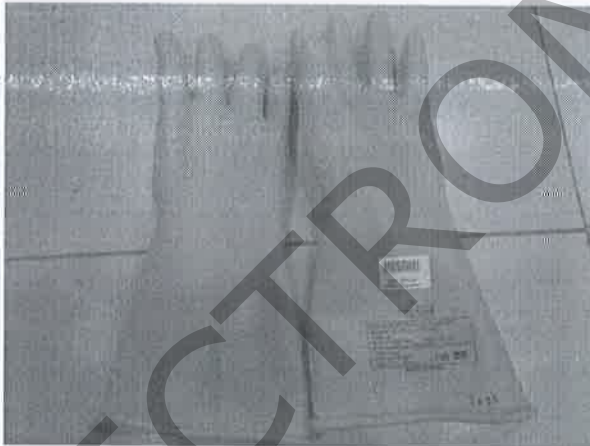


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***** End of Test Report *****

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