



TEST REPORT

High Voltage Ref. Lab.

Manufacturer: KASRA Co.

Test item description: Insulation Sample

Client: KASRA Co.

The issuing of this report does not mean a certificate for test object and is not according to the activities of "Assessment counsile and Accordance with Production Standards".

Reference Laboratories Center

High Voltage Group

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Insulation sample

IEC 60243-1(1998)

Compiled by.....: SAEED YEGANEH

Approved by:: SIAMAK ABYAZI

Tests witnessed by::-----

Date of issue.....:29.11.2011

Testing Laboratory Name:

Address.....: Niroo Research Institute, End of Dadman Blvd., Shahrak Ghods, Tehran, Iran

Tel/Fax: (+98-21)88079401-8/(+98-21) 88078296

Web-site.....: www.nri.ac.ir

Test laboratory location.....: High voltage lab.

Client's name.....: KASRA Co.

Request number.....: 822/7/90

Request date.....: 15.10.2011

Sample delivery data.....: 27.11.2011

standard number.....: IEC 60243-1

Test method.....: Standard

Non-standard test method.....:-----

Report number.....: TH90079

Sample number.....: STH90079

Test item description

Manufacturer/ Client.....: KASRA Co / KASRA Co

Model.....:

Serial number.....:

The test result related only to the sample tested.

The copyright of this report is not validated without direct NRI HV Lab. approve.

This report includes 5 pages

Tested by:



Approved by:

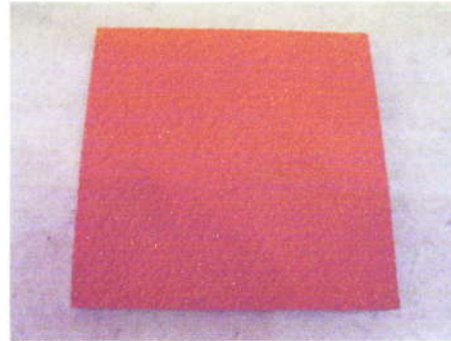


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1- Test object picture



2- Technical specification of the test object assigned by the client

Thickness:

3.8mm

3- Remarks

Customer can complaint about test results up to one month after issue date of test report formally and in written. If any laboratory's fault is proven that affected the test result, performing of test will be done again without any payment. Samples are kept for six month in laboratory's archive. If customer wants to return the test samples, can't complaint to test results.

Sampling is performed by costumers itself and laboratory is not responsible for that.



4- Summary of test procedure and test Results

| Atmospheric Conditions in lab. | | | |
|--------------------------------|-------------|--------------|----------|
| Pressure: | P= 854.4hPa | Temperature: | t=14.9°C |
| Humidity: | R=28.5% | | |

4.1- Electrical Insulation sample.

This test has been performed by a semiautomatic dielectric test set-type Dieltest DTS Produced by BAUR Company.

In this test a sample by the size of 5cm×5cm from the floor insulating is put inside a container full of transformer oil between two cylindrical brass electrodes with 6.4mm diameter.

Voltage increases to a breakdown (puncture) in the sample.

This test repeats for 4 other samples.

| Sample code | Thichness(mm) | Increase rate of voltage (kV/s) | Breakdown voltage (kV) | Average breakdown voltage (kV) |
|-------------|---------------|---------------------------------|--------------------------|--------------------------------|
| STH90079 | 3.8 | 3 | 51.1-53.4-50.7-54.6-56.6 | 53.3 |

