



TEST REPORT

CLIENT: HUADING GROUP CO., LTD.
REFERENCE: GB/T 4207-2012/IEC 60112:2009
TEST ITEM: COMPARATIVE TRACKING INDEX (CTI)
SAMPLE: PCB
REPORT No.: 10344E

TEST RESULTS SUMMARY:

The samples were tested by the indicated test method within this report. Actual detailed test results are enclosed.

PCB CTI600

(1 of 5)

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"INTEGRITY, HONESTY AND KNOWLEDGE"

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MCQD530-02(2014)



Report Number: 10344E

SUBMISSION IDENTIFICATION

The following sample(s) were submitted and received in a suitable condition for testing as requested:

TEST SAMPLES SUBMITTED: 2015-04-27

TEST DATE: 2015-04-27~2015-04-30

SAMPLE DESIGNATION: PCB

SAMPLE IDENTIFICATION: PHIE150385 BE1FGA_DOUBLE

SAMPLE QUANTITY: 1 PCS

* * * * *

IN ACCOUNT WITH:

HUADING GROUP CO., LTD.

UNIT D, WORLD TRADE CENTRE, NO.122 SHUGUANG ROAD, HANGZHOU, ZHEJIANG,
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COMPARATIVE TRACKING INDEX (CTI)

TEST SPECIMENS

The size of the specimen shall not be less than 15 mm x 15 mm. The thickness of the test specimen shall be 3 mm or more. Individual pieces of material may be stacked to obtain the required thickness of at least 3 mm.

REFERENCES

GB/T4207-2012/IEC 60112:2009 Method for determining the comparative and the proof tracking indices of solid insulating materials under moist conditions

METHOD

The specimen is placed horizontally on the test bench. Specimen less than 3mm in thickness shall be stacked till the thickness is not less than 3mm.

The electrodes run parallel in the vertical plane, with a spacing of $4\text{mm} \pm 0.1\text{mm}$. Adjust the pressure of the electrodes to the specimen to $1.0\text{N} \pm 0.05\text{N}$. The drops shall fall at the center of two electrodes, at a time interval of $30\text{s} \pm 5\text{s}$.

Adjust the voltage to a pre-selected value and start 100 drops test. It's likely that no tracking failure occurs or some tracking failure occurs within 100 drops to the specimen. Continue testing at other test points on the specimen with higher voltage, until the maximum voltage is obtained for no failure at 5 different points with 50 drops. This voltage value is CTI.

RESULTS

The test result indicated the comparative tracking index was CTI600, See attached test data sheet and photo for actual measurements.

CTI

| | | | | | |
|------------------------------|--|---------|------------------|-----------------------|---------|
| Sample Designation | PCB | | Test Date | 2015-04-27~2015-04-30 | |
| Sample Identification | PHIE150385 BE1FGA DOUBLE | | Ambient | 23°C, RH: 50% | |
| Sample No. | 10344-1 | 10344-2 | 10344-3 | 10344-4 | 10344-5 |
| Thickness (mm) | 1.514 | 1.516 | 1.519 | 1.515 | 1.514 |
| Drops | 600V | 100(6) | 100(6) | 100(6) | 100(6) |
| CTI | CTI 600 | | | | |
| Note: | (5) : Flamed, melted and eroded | | | | |
| | (6) : Insufficient tracking-test terminated at indicated value | | | | |