



Report Number: 03458

SUBMISSION IDENTIFICATION

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

TEST REPORT

Changzhou Fengsheng Optoelectronics CO., LTD

Y-Axis Thermal Expansion

SAMPLE DESIGNATION: PS DIFFUSER PLATE

REPORT NUMBER: 03458

TEST RESULTS SUMMARY:

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



(1 of 5)

This report applies only to the sample(s) tested, and is not necessarily indicative of the quality or condition of apparently identical or similar products. All or part of the processes involved in the testing may be subcontracted at Microtek Laboratories discretion. As a mutual protection to clients, the public, and Microtek Laboratories, this report is submitted and accepted for the exclusive use of the client to whom it is addressed and upon the condition that it is not to be used, in whole or in part, in any advertising or publicity matter without prior written authorization from Microtek Laboratories. In addition, this report shall not be reproduced, except in full, without the written approval of Microtek Laboratories.

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SUBMISSION IDENTIFICATION

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

TEST SAMPLES SUBMITTED: 2011-03-10

TEST DATE: 2011-03-14

SAMPLE DESIGNATION: PS DIFFUSER PLATE

SAMPLE IDENTIFICATION: /

SAMPLE QUANTITY: 1 PCS

* * * * *

IN ACCOUNT WITH:

Changzhou Fengsheng Optoelectronics CO., LTD

NO.406 Hanjiang Road, New North District Changzhou, Jiangsu, China

0519-85172288

Contact: Jing Chen

Sample No.	Material	Thickness	Temperature	Time	Result
03458	PS	0.15mm	150-180°C	10min	OK



THERMAL MECHANICAL ANALYSIS

(TMA)

SPECIMENS

One Y-direction specimen

REFERENCE

Customer Technical Requirement

METHOD

One specimen was prepared by cutting out and sanding any rough edges. Unless otherwise specified the specimen shall be conditioned at $23 \pm 2^\circ\text{C}$ and $50 \pm 5\%$ relative humidity for a minimum of 40 hours.

Measure and record the thickness of the specimens. Mount the specimen on the stage of the TMA and apply a load 5 g. Start the scan at a temperature no higher than 35°C to 90°C , at a rate of 5°C per minute.

RESULTS

The samples were tested as given by the methods above. See attached "Thermal Mechanical Analysis Test" data sheet and TMA scans for actual measurements.

THERMAL MECHANICAL ANALYSIS TEST

Sample Designation	PS DIFFUSER PLATE	Sample Identification	/
Test Date	3/14/2011	Ambient	21°C , 60%RH
Sample No.	Y-Axis Thermal Expansion ($\mu\text{m}/\text{m}\cdot^\circ\text{C}$)		
	(25~80) $^\circ\text{C}$		
	Measurement	Requirement	
03485-1	74.67	/	

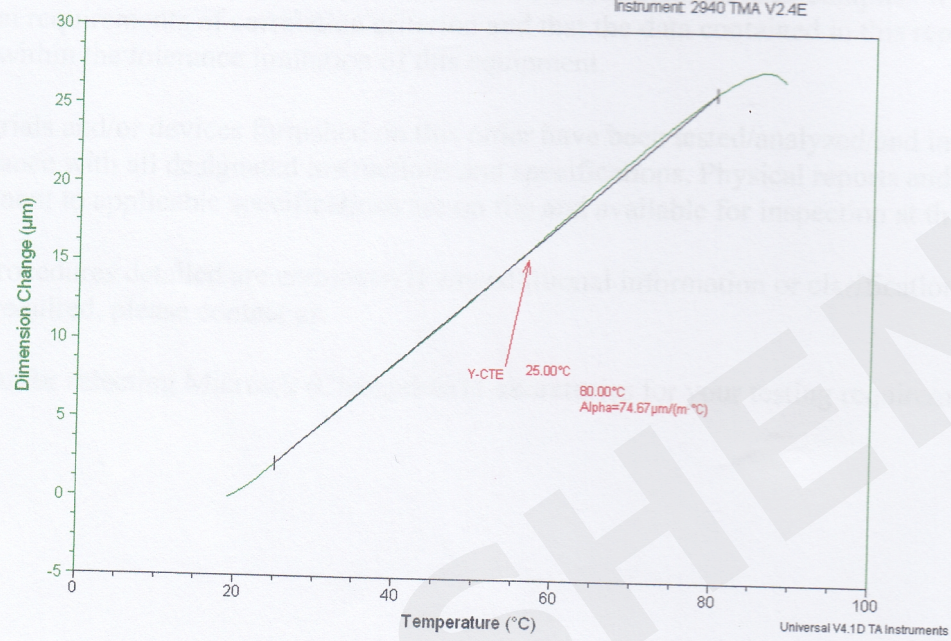


Report Number: 03458

Sample: 03458-1
Size: 5.8285 mm
Method: CTE

TMA

File: Y:\Job\03458\03458-1.003
Operator: Jane Fan
Run Date: 14-Mar-2011 15:04
Instrument: 2940 TMA V2.4E



Sample Number: 03458-1

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CERTIFICATE OF CONFORMANCE

Microtek (Changzhou) Laboratories certifies that the test equipment used complies with the calibration requirements of correlation criterion and that the data contained in this report is accurate within the tolerance limitation of this equipment.

The materials and/or devices furnished on this order have been tested/analyzed/and inspected in accordance with all designated instructions and specifications. Physical reports and other data pertinent to applicable specifications are on file and available for inspection at this plant.

All test procedures detailed are complete. If any additional information or clarification of this report is required, please contact us.

Thank you for selecting Microtek (Changzhou) Laboratories for your testing requirements.

Edited by:

Jane Fan

Jane Fan

Date: 2011-03-14

Reviewed by:

Susan Le

Susan Le

Date: 2011-03-14

Approved by:

Steven Zhang

Steven Zhang

Date: 2011-03-14

