

<b>Prüfbericht - Nr.: 21117405_002</b>		Seite 1 von 6	
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<b>Auftraggeber:</b> Client:	Toshiba Europe GmbH Hammfelddamm 8, 41460 Neuss		
<b>Gegenstand der Prüfung:</b> Test item:	Notebook		
<b>Bezeichnung:</b> Identification:	PORTÉGÉ M300	<b>Serien-Nr.:</b> Serial No.:	See Chapter 3.
<b>Wareneingangs-Nr.:</b> Receipt No.:	68233	<b>Eingangsdatum:</b> Date of receipt:	05.01.2005
<b>Prüfort:</b> Testing location:	Köln		
<b>Prüfgrundlage:</b> Test specification:	Drop and spill resistance test (see also Other Aspects)		
<b>Prüfergebnis:</b> Test Result:	<b>Siehe Meßergebnis (Kapitel 3).</b> See measurement result (Chapter 3).		
<b>Prüflaboratorium/Testing Laboratory</b> geprüft/tested by:	<b>kontrolliert/checked by:</b>		
27.01.2005	H.-J. Herrmann	27.01.2005	S. Scheuer
			
<b>Datum</b> Date	<b>Name</b> Name	<b>Unterschrift</b> Signature	<b>Datum</b> Date
			<b>Name</b> Name
			<b>Unterschrift</b> Signature
<b>Sonstiges/Other Aspects:</b>			
The test specification was submitted on 05.01.2005 and adjusted together with the client. This Test Report is a short form of Test Report No. 21117405_001.			
Abkürzungen: ok = entspricht Prüfgrundlage fail = entspricht nicht Prüfgrundlage N/A = nicht anwendbar		Abbreviations: ok = passed fail = failed N/A = not applicable	
<b>Dieser Prüfbericht bezieht sich nur auf den o.g. Prüfgegenstand und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens.</b>			
<i>This test report relates to the a. m. test item. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any safety mark on this or similar products.</i>			

**Verwendete Meßgeräte**  
*Used equipment*

<b>Messung</b> <i>Measurement</i>	<b>Gerätenummer</b> <b>Inventar-Nr.</b> <b>Serien-Nr.</b>	<b>Nächste</b> <b>Kalibrierung</b> <i>Next calibration</i>
Maßband <i>Measuring tape</i>	14801317	07/2006
Elektronische Waage <i>Electronic balance</i>	14000217	03/2006

## **1 Task**

With the notebook a drop and a spill resistance test has to be performed. The test specification was submitted on 05.01.2005 and adjusted together with the client.

## **2 Test specification**

### **2.1 Drop test**

- Drop the notebook on a steel plate.
- Drop height is 72 cm  $\pm$ 0,5 cm (typical height of a desk) and 90 cm  $\pm$ 0,5 cm.
- Drop onto each of the 4 sides (right, left, back and front).
- Repeat the test three times for each side and height.
- During drop the notebook is switched off and the LCD panel is closed.
- After each drop evaluate mechanical damages and turn on the notebook, which shall boot.
- Report the results for the enclosure, display and boot operation.

### **2.2 Spill resistance test**

- Turn on the notebook and connect it to the power cord.
- Spill water between key 'G' and 'H'.
- Observe the notebook for 3 min.
- Turn the notebook off, remove the power cord and wipe the water with a dry paper towel/cloth, dry the notebook for further 24 hours in a typical office environment (use a fan).
- After each spill test turn on the notebook, which shall boot. Do the spill test with 10 ml, 20 ml, 30 ml, 40 ml and 50 ml water ( $\pm$ 0,2 ml).
- Report the results for function of the keyboard, display and boot operation.

#### **NOTE:**

Definition of boot operation: The operating system (here Windows XP) will start and the desktop appears.

### 3 Measurement result

#### 3.1 Drop test

Notebook used:

Model No.: PPM30EX01F007

Serial No.: Z4017092JG T

The following table shows the result made by visual inspection after each drop for the enclosure, display and boot operation.

Drop height [cm]	Side	Enclosure	Display	Boot operation
72	Right	Ok	Ok	Ok
72	Left	Broken at left side	Ok	Ok
72	Back	Ditto	Ok	Ok
72	Front	Ditto	Ok	Ok
72	Right	Ditto	Ok	Ok
72	Left	Broken near keyboard	Ok	Ok
72	Back	Ditto	Ok	Ok
72	Front	Ditto	Ok	Ok
72	Right	Ditto	Ok	Ok
72	Left	Ditto	Ok	Ok
72	Back	Ditto	Ok	Ok
72	Front	Ditto	Ok	Ok
90	Right	Ditto	Ok	Ok
90	Left	Ditto	Ok	Ok
90	Back	Ditto	Ok	Ok
90	Front	Ditto	Ok	Ok
90	Right	Ditto	Backlight defective	Ok
90	Left	Ditto	Ditto	Ok
90	Back	Ditto	Ditto	Ok
90	Front	Ditto	Ditto	Ok
90	Right	Ditto	Display is broken	Ok
90	Left	Ditto	Ditto	Ok
90	Back	Ditto	Ditto	Ok
90	Front	Ditto	Ditto	Ok

Notebook used:

Model No.: PPM30EX01F007

Serial No.: not specified

The following table shows the result made by visual inspection after each drop for the enclosure, display and boot operation.

Drop height [cm]	Side	Enclosure	Display	Boot operation
72	Right	Broken at right side	Ok	Ok
72	Left	Broken at left side	Ok	Ok
72	Back	Ditto	Ok	Ok
72	Front	Broken near keyboard	Ok	Ok
72	Right	Ditto	Ok	Ok
72	Left	Ditto	Ok	Ok
72	Back	Ditto	Ok	Ok
72	Front	Ditto	Ok	Ok
72	Right	Ditto	Ok	Ok
72	Left	Ditto	Ok	Ok
72	Back	Ditto	Ok	Ok
72	Front	Ditto	Backlight defective	Ok
90	Right	Ditto	Ditto	Ok
90	Left	Ditto	Ditto	Ok
90	Back	Ditto	Ditto	Ok
90	Front	Ditto	Ditto	Ok
90	Right	Ditto	Ditto	Ok
90	Left	Ditto	Ditto	Ok
90	Back	Ditto	Ditto	Ok
90	Front	Ditto	Ditto	Ok
90	Right	Ditto	Ditto	Ok
90	Left	Ditto	Ditto	Ok
90	Back	Ditto	Ditto	Ok
90	Front	Ditto	Ditto	Ok

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### **3.2 Spill resistance test**

Notebook used:

Model No.: PPM30EX01F007

Serial No.: Z4017083JG T

The following table shows the result made by visual inspection after each spill test for function of the keyboard, display and boot operation.

Amount of water [ml]	Keyboard	Display	Boot operation
10	Ok	Ok	Ok
20	Ok	Ok	Ok
30	Ok	Ok	Ok
40	Ok	Ok	Ok
40	Ok	Ok	Ok
50	Ok	Ok	Ok
50	Ok	Ok	Ok