SEMI D38-0624
GUIDE FOR QUALITY AREA OF FLAT PANEL DISPLAY (FPD) MASKS

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1 Purpose

1.1 This Guide defines the quality area of FPD masks.

2 Scope

2.1 This Guide applies to masks that are principally used in fabricating flat panel displays. The mask size specifies range from 202.8 mm × 202.8 mm to 1620 mm × 1780 mm.

2.2 Substrates with an edge length less than 200 mm follow the specifications for a semiconductor mask (refer to SEMI P1).

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3 Referenced Standards and Documents

3.1 *SEMI Standards and Safety Guidelines*

SEMI D6 — Specification for Flat Panel Display (FPD) Mask Substrates

SEMI P1 — Specification for Hard Surface Photomask Substrates

NOTICE: Unless otherwise indicated, all documents cited shall be the latest published versions.

4 Terminology

4.1 None.

5 Quality Area of FPD Masks

5.1 For Mask Size ≤550 mm × 650 mm:

- 10 mm from (peripheral) edge of blanks.

5.2 For Mask Size >550 mm × 650 mm, ≤700 mm × 800 mm:

- 20 mm from (peripheral) edge of blanks.

5.3 For Mask Size >700 mm × 800 mm, ≤850 mm × 1200 mm:

- 30 mm from (peripheral) edge of blanks.

5.4 For Mask Size >850 mm × 1200 mm, ≤1220 mm × 1400 mm:

- 35 mm from (peripheral) edge of blanks.

5.5 For Mask Size >1220 mm × 1400 mm, ≤1620 mm × 1780 mm:

- 40 mm from (peripheral) edge of blanks.

5.6 The quality area should be within the area of the writing pattern.

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