

ENGINEERING MATERIAL SPECIFICATION

Material Name

Specification Number

**FIBERBOARD (PANEL) - KRAFT PAPER LINED – POLYSTYRENE
FOAM CORE**

ESB-M2E97-A

1. SCOPE

The material defined by this specification is a kraft paper lined, polystyrene foam core laminate.

2. APPLICATION

This specification was released originally for material used in the 1978 Fairmont/Zephyr as the core and structural component of the foam core panelboard ESB-M2E96-A used in one piece headliner constructions.

3. REQUIREMENTS

3.1 STANDARD REQUIREMENTS FOR PRODUCTION MATERIALS

Material suppliers and part producers must conform to the Company's Standard Requirements For Production Materials (WSS-M99P1111-A).

3.2 CONSTRUCTION

The kraft paper/polystyrene/kraft paper composite shall be uniform in quality and construction to provide a finished laminate.

3.3 THICKNESS

(ASTM D 645, except use a 6.4 mm diameter foot and 85 g loading)

Total product	3.8 +/- 0.63 mm (Thickness variation on any one board shall not vary more than 0.38 mm.)
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3.4 WEIGHT, min

(SAE J 315 b, based on average of 5 tests across the board)

Total product	580 g/m ²
Kraft paper, (ea)	183 g/m ²
Foam core	183 g/m ²

Date	Action	Revisions
2002 10 15	Revised	Updated and renumbered
1983 09 26	3.8,3.9, 3.10	Revised - B4A-36026/CAN1-MF 504624-1
1977 05 03		Released AG1-6000-221

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3.5 BURSTING STRENGTH, min 326 kPa/mm of thickness
(SAE J 315 b)

3.6 WATER ABSORPTION, max 80 %
(SAE J 315 b)

3.7 ODOR

No disagreeable odor as received or after 24 h at 40 °C at 90-100 % relative humidity.

3.8 DIMENSIONAL STABILITY, max Humidity ("A") Heat ("C")
(SAE J 315 b, Method "A" and "C") +/-0.8 % -2.5 %

3.9 WARPAGE, max
(SAE J 315)

Original	2.4 %
Wet	4.9 %
Dry	7.3 %

3.10 RESISTANCE TO FOAM SPLITTING OR DELAMINATION, max
(FLTM BS 4-4) 9.0 %

When one panel board is tested according to FLTM BS 4-4, the panel board shall no exhibit more than 9.0 % failed foam.

3.11 FLAMMABILITY, max 101 mm/min
(FLTM BN 24-2, without the lot sampling plan)

In addition, the test specimen shall not exhibit any flashing or sudden flaming on either surface in excess of the above max value.