



ENGINEERING MATERIAL SPECIFICATION

FIBERBOARD (PANEL), PRESSED WOOD – COATED

ESB-M3E66-B
▽ ESB-M3E66-C

1. SCOPE

The material defined by these specifications is a coated ESB-M2E66 type pressed wood panel board of good quality and uniform composition with a pyroxylin or equivalent coating on one side.

2. APPLICATION

These specifications were released originally for material used for applications requiring rigidity and dimensional stability for constructing truck door and quarter trim panels and as a package tray.

3. REQUIREMENTS

3.0 STANDARD REQUIREMENTS FOR PRODUCTION MATERIALS

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

3.1 APPEARANCE (FLTM BI 109-01)

The color, pattern, and finish shall match the approved Design Center master sample, or shall be as specified on the engineering drawing.

3.3 DIMENSIONS (ASTM D 645, Method "A")

As specified on engineering drawings

3.4 MOISTURE CONTENT (ASTM D 644, 4 x 4 in (100 x 100 mm) samples)

3 - 6%, based on original weight

3.5 WATER ABSORPTION, max (SAE J 315b, 24 h immersion)

35%

3.6 WATER SWELL, max (SAE J 315b)

18%

3.7 WARP, max (FLTM BS 002-01, 24 h water immersion)

5%

3.8 BURSTING STRENGTH, min (SAE J 315b)

3.5 psi/0.001 in
(950 kPa/mm)
of thickness

Date	Action	Revisions
2003 08 19	Revised	Para 3.0 inserted; Para 3.2, 3.22, 4 deleted
1978 09 19		Metricated, Renumbered & Retyped CAHI-RD572066-95
1964 02 11		Released ESB-M3E66-B AT1-979

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**3.9 TRANSVERSE, STRENGTH, min**
(FLTM BS 005-01)

Thickness, in (mm)			Strength, lb (N)	Span, in (mm)
0.060	+0.010 -0.005	(1.52 +0.25 -0.13)	8 (36)	6 (152)
0.080	+0.010 -0.005	(2.03 +0.25 -0.13)	10 (45)	6 (152)
0.100 +/- 0.010		(2.54 +/- 0.25)	15 (67)	6 (152)
0.125 +/- 0.010)		(3.18 +/- 0.25)	20 (89)	8 (203)
0.156 +/- 0.010		(3.96 +/- 0.25)	30 (134)	8 (203)
0.187 +/- 0.010		(4.75 +/- 0.25)	44 (196)	8 (203)
0.250 +/- 0.010		(6.35 +/- 0.25)	78 (347)	8 (203)

3.10 DIMENSIONAL STABILITY
(SAE J 315 b, 24 h water immersion)

			Expansion, %	Contraction, %
0.060	+0.010 in -0.005 in	(1.52 +0.25 mm -0.13 mm)	+0.8	-0.8
0.080	+0.010 in -0.005 in	(2.03 +0.25 mm -0.13 mm)	+0.7	-0.7
0.100 +/- 0.010 in		(2.54 +/- 0.25 mm)	+0.5	-0.5

3.11 STIFFNESS, min
(Tinius Olsen, direct reading at 5° angle, 6 lb in (0.68 N m) load, 2 in (51 mm) span, 1 x 4 in (25 x 100 mm) samples, both directions)

			Original	Soaked*
0.080	+0.010 in -0.005 in	(2.03 +0.25 mm -0.13 mm)	30	15
0.100 +/- 0.010 in		(2.54 +/- 0.25 mm)	40	20

*Immerse test specimens in tap water at 23 +/- 2 °C for 24 h. Determine stiffness immediately upon removal from water basin.