



FIBERBOARD (PANEL), COATED

ESB-M3E13-A

FIBERBOARD (PANEL), COATED

▽ ESB-M3E13-B

PAPERBOARD, KRAFT LINED - BENDING GRADE, COATED

ESB-M3E13-C

1. SCOPE

The material defined by these specifications is a vinyl, pyroxylin or equivalent coated, semi-waterproof ESB-M2E13 panel-board containing a maximum of 13% asphalt resin in the core ply. The ESB-M3E13-C board has outer plies of virgin kraft paper.

2. APPLICATION

These specifications were released originally for material used for constructing automotive cowl panels or for similar interior trim applications. The ESB-M3E13-C specification was released originally for materials used for the construction of luggage compartment front and sides where a better bending board was desired in the 1982 T'Bird and XR7 carlines.

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 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 MOISTURE CONTENT 4 – 9% (ASTM D 644, 4 x 4 in (100 x 100 mm) samples, based on original weight)

3.4 WATER ABSORPTION, max 25% (SAE J315, 1-1/2 h immersion)

3.5 WARP, max (FLTM BS 002-01, 1-1/2 h water immersion)

WMD 5%
AMD 9%

Date	Action	Revisions
2006 10 17	Revised	ESB-M3E13-D inactivated and removed, replaced by ESB-M3E13-C; Revised 1, 2, 3.16 & 3.18 R. Lord
2003 01 29	Revised	Para 3.0 inserted; para 3.2, 3.19, 4 deleted
1963 07 02	Released	ESB-M3E13-A AS1-965



ESB-M3E13-A
▽ESB-M3E13-B
ESB-M3E13-C**3.6 DIMENSIONAL STABILITY**
(SAE J315, Methods "B & C")

Expansion, % max Contraction, % max

WMD	+0.5	-0.5
AMD	+1.5	-1.5

3.7 BURSTING STRENGTH, min
(ASTM D 774, 5 bursts on each4 psi/0.001 in
(1.1 MPa/mm)
of thickness
side of 3 specimens)**3.8 STIFFNESS, min**(ASTM D 747, Tinius Olsen Stiffness Tester, direct load reading at 5° angle, 2 in (51 mm) span,
2.5 lb. in (0.28 N m) load on a 1 x4 in (25 x 100 mm) sample (4 test average)

WMD	65
AMD	15

3.9 DIMENSIONS
(ASTM D 645, Method "A")As specified on
engineering drawingsCoating and embossing the basic panel-boards, ESB-M2E13, may result in an allowable 0.004
in (0.10 mm) maximum thickness loss.

Example:	Coated Board (ESB-M3E13)	Basic Board (ESB-M2E13)
	0.066 - 0.075 in (1.68 - 1.91 mm)	0.070-0.075 in (1.78-1.91 mm)

3.10 COATING QUALITYShall be of a good grade, containing sufficient oils and pigments to give the film the desired
color and softness. The plasticizer content shall be rigidly controlled to prevent "spewing", as
determined in para 3.11.**3.11 HEAT AGING**The coating shall exhibit no evidence of spewing and no more surface discoloration than that of
the master sample (as approved for production by the Textile and Acoustic Engineering
Laboratory, Body Materials and Corrosion Protection Engineering Department) on file in the
testing laboratories after heat aging in a mechanical convection oven maintained at 82 +/- 3 °C
for 7 days. Vinyl, pyroxylin or equivalent coatings, which exhibit properties equal to that used
on the master sample (as approved for production by the Textile and Acoustic Engineering
Laboratory, Body Materials and Corrosion Protection Engineering Department) may be used.