Ford Motor Company

ENGINEERING MATERIAL SPECIFICATION

Material Name	Specification Number
FIBERBOARD (PANEL), PRESSED WOOD - NON-DIELECTRIC GRADE	**Ñ ESB-M2E66-B**
FIBERBOARD (PANEL), PRESSED WOOD - FORMABLE GRADE	**Ñ ESB-M2E66-C**
FIBERBOARD (PANEL), PRESSED WOOD - DIELECTRIC GRADE	**Ñ ESB-M2E67-B**

1. SCOPE

The materials defined by these specifications are:

∇ ESB-M2E66-B	Pressed wood panelboard, i.e., hardboard.
∇ ESB-M2E66-C	More dense, higher impact, formable grade of panelboard.
∇ ESB-M2E67-B	∇ ESB-M2E66-B panelboard, coated with a bonding resin in the areas as indicated on the engineering drawing.

2. APPLICATION

These specifications were released originally for materials used in the following applications:

∇ ESB-M2E66-B	Foundation for door and quarter trim panels, sun visors, package trays, and front and rear seat backs.
∇ ESB-M2E66-C	Structural rear seat back on the 1975 Mustang and Pinto.
∇ ESB-M2E67-B	Foundation for dielectric bonded door and quarter trim panels.

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 THICKNESS

As specified on engineering drawings

(SAE J 315b)

Thickness variation on any board used in heat bonding operations shall not exceed 0.25 mm or 10 %, whichever is smaller.

3.3 DENSITY

∇ ESB-M2E66-B	881 kg/m^3
∇ ESB-M2E67-B	881 kg/m^3
∇ ESB-M2E66-C	1442 kg/m^3

Date	Action	Revisions	
2002 10 15	Revised	Updated and renumbered	
1983 02 16	3.9 , 5	Revised, Retyped	CAM1-RD588050-20
1971 08 17		Released	AB1-302-14

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3.4 MOISTURE CONTENT, based on original weight
(SAE J 315 b)

∇ ESB-M2E66-B	3 – 6 %
∇ ESB-M2E67-B	3 – 6 %
∇ ESB-M2E66-C	4 – 7 %

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

∇ ESB-M2E66-B	40 %
∇ ESB-M2E67-B	40 %
∇ ESB-M2E66-C	25 %

3.6 WATER SWELL, max 23 %
(SAE J 315 b)

3.7 WARP, max 5 %
(FLTM BS 2-1, 24 h water immersion)

3.8 BURSTING STRENGTH, min
(SAE J 315 b)

∇ ESB-M2E66-B	0.95 MPa/mm
∇ ESB-M2E67-B	0.95 MPa/mm
∇ ESB-M2E66-C	1.1 MPa/mm

3.9 FLEXURAL STRENGTH, min 31 MPa
(ASTM D 790, Method I - Procedure "A," Avg. of 5)

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

	Expansion	Contraction
2.03 mm	+0.7	-0.7
2.54 mm	+0.5	-0.5

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