



TAPE, POLYETHYLENE, PRESSURE SENSITIVE, INTERIOR (ANTISQUEAK)

ESB-M3G123-B

1. SCOPE

The material defined by this specification is a ultra high molecular weight polyethylene film backed with a pressure sensitive adhesive and release paper liner.

2. APPLICATION

This specification was released originally for materials used to prevent friction and noise between interior trim parts.

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).

3.4 SETTING TIME FOR NORMAL HANDLING

The film shall set sufficiently to permit normal handling immediately after application.

3.5 FILM PROPERTIES

3.5.1	Color	transparent
3.5.2	Thickness, min (ASTM D 1000)	
	Film plus Adhesive	0.13 mm
	Release Liner	0.08 mm
3.5.3	Tensile Strength, min (ASTM D 1000)	5.2 N/mm width
3.5.4	Elongation at Break, min (ASTM D 1000)	200%

3.6 FOGGING

(FLTM BO 116-03, 3 h at 100 °C)

Fog Number, min 60

Film to be tested with adhesive side up; liner side on the beaker bottom.

The formation of droplets or coalescence into a clear film is cause for rejection.

Date	Action	Revisions
2005 10 13	Revised	Inserted 3.0; Deleted 3.1, 3.2, 3.3, 3.19, 4
1995 01 17	Revised	NB00E10043064155 Revised para 3.5
1991 02 22	Released	NB00I10043054068



3.7 PREPARATION OF TEST SPECIMENS

Substrate test specimens may be obtained from slab stock and/or unpainted production parts. Except where otherwise noted, tests shall be conducted on test panels for the substrate listed below by applying the film per the following procedure:

- Clean test panels with a 50/50 solution of distilled water and isopropyl alcohol.
- Peel off the backing liner from the film in a smooth continuous motion. Do not pull the film from the liner.
- Position the film on the test panel.
- Roll forward and backward the full length of the film with a roller described in ASTM D 1000.
- Test panels with applied film shall be condition for 48 h at 23 +/- 2 °C and 50% relative humidity prior to exposure. Test shall be completed within 4 h after removal from the conditioning environment, unless otherwise noted.

3.7.1 Substrate

3.7.1.1 Polycarbonate, Low Temperature
Impact Resistance
(ESB-M4D100-Type)

3.7.1.2 Current Production
Paint Systems per
(FLTM BI 103-02, Method "C")

3.8 ADHESION

(ASTM D 1000, Method A, except determine adhesion to substrates listed in para 3.7.1)

The adhesive shall produce a durable bond between the film and the substrate surface with the following minimum peel strengths:

3.8.1 As Received

(Conditioned for 48 h at 23 +/- 2 °C
at 50 +/- 5% relative humidity)

3.8.1.1 Plastic Substrate 175 N/m

3.8.1.2 Current Production
Paint Systems 350 N/m

3.8.2 Aged

3.8.2.1 Plastic Substrate 274 N/m

3.8.2.2 Current Production
Paint Systems 526 N/m

Test method: Expose duplicate samples to each of the following conditions: