

ENGINEERING MATERIAL SPECIFICATION

Material Name

Specification Number

FABRIC, NON-WOVEN, VINYL COATED, MULTI-PURPOSE

WSS-M2F191-A

1. SCOPE

The material defined by this specification is a calendered polyvinyl chloride copolymer film laminated to a needle-punched non-woven textile.

2. APPLICATION

This specification was released originally for material used in interior trim as a covering for automotive seat side facings.

This material is only recommended for use as a covering for the seat back and cushion side facings and other nonseating surfaces. It is to be used with french or deck seams and/ or welts in stressed seam applications. Plain join seams in stressed seam areas are not recommended because of visible needle hole elongation.

3. REQUIREMENTS

In addition to the requirements listed herein, this material shall meet all requirements of the WSB-M8P3-C, PERFORMANCE, FLEXIBLE POLYMERIC FILM, INTERIOR QUALITY material performance specification.

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 APPEARANCE

(FLTM BI 109-01)

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

3.5 BACKING FABRIC

3.5.1 Composition
(ASTM D 629)

100% polyester non-woven

Date	Action	Revisions
2003 01 14	Revised	Para 3.0 inserted ; Para 3.1, 3.2, 3.3, 3.17, 4 deleted
1995 09 14	Activated	D. Whyte B. Chen

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3.5.2 Construction

This fabric is good quality non-woven material bonded by a mechanical needling process. The fiber size and staple shall be as agreed between the supplier and Materials Engineering.

3.6	WEIGHT, range (ASTM D 751, sample method)	LSL 815 g/m ²	USL 945 g/m ²
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3.7 **RESISTANCE TO TEAR TRAPEZOID, min**
(ASTM D 1117, Integrated Method)

	LSL
Warp	100 N (169 N average)
Fill	100 N (280 N average)

3.8 **BREAKING STRENGTH, min**
(ASTM D 751, grab method)

	LSL
Warp	445 N (640 N average)
Fill	445 N (676 N average)

The vinyl coating shall not fail before the specified minimum breaking values are obtained.

3.9 **SEAM STRENGTH, min**
(FLTM BN 119-01, except use lockstitch with 6 stitches/25 mm, 5 sample average in each direction)

	LSL
Warp	445 N (662 N average)
Fill	445 N (720 N average)

3.10 **ADHESION OF VINYL FILM TO BACKING FABRIC, min**
(FLTM BN 151-05, Method A/ISO 2711)

	LSL
Warp	35 N / 50 mm (52 N / 50 mm average)
Fill	35 N / 50 mm (61 N / 50 mm average)