**FABRIC, VINYL COATED, MULTI-PURPOSE** **WSD-M2F172-A**
**FABRIC, VINYL COATED, MULTI-PURPOSE, TRILAMINATE** **WSD-M2F172-B**
**FABRIC, VINYL COATED, MULTI-PURPOSE, TRILAMINATE** **WSD-M2F172-C**
**FABRIC, VINYL COATED, MULTI-PURPOSE, TRILAMINATE** **WSD-M2F172-D**

## 1. SCOPE

The material defined by these specifications is a calendered polyvinyl chloride copolymer film laminated to a nonwoven polyester fabric. In specifications WSD-M2F172-B/C/D, the vinyl coated fabric (WSD-M2F172-A) is flame laminated to polyether foam and a knitted backing scrim.

## 2. APPLICATION

These specifications were released originally for material used in interior trim as a covering for automotive seat backs.

## 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 REINFORCING FABRIC*

3.4.1 Composition (ASTM D 629) — 100% Polyester

3.4.2 Construction

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

3.4.3 Breaking Strength, min
(ASTM D 1682, GT, test speed 300 mm/minute)

| | |
|---|---|
| WMD | 150 N |
| AMD | 200 N |

* or engineering approved alternative.

| Date | Action | Revisions |
|---|---|---|
| 2003 08 27 | Revised | Para 3.0 inserted; Para 3.1, 3.2, 3.3, 3.7, 4 deleted |
| 1993 11 12 | C10351585 | Released –B, -C, -D; revised 3.5.5 NJK |
| 1992 05 13 | C10213035 | Released N Komatsu |

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## 3.5 VINYL COATED FABRIC

3.5.1 Weight, min
(ASTM D 751, sample method)

| | |
|---|---|
| Vinyl coating | 490 g/m$^2$ |
| Backing Fabric | 120 g/m$^2$ |
| Total | 610 g/m$^2$ |

3.5.2 Breaking Strength, min
(ASTM D 751, GT, Grab method)

| | |
|---|---|
| WMD | 450 N |
| AMD | 450 N |

3.5.3 Tear Strength, min
(ASTM D 1117, Integration method)

| | |
|---|---|
| WMD | 100 N |
| AMD | 150 N |

3.5.4 Seam Strength, min
(FLTM BN 119-01)

| | |
|---|---|
| WMD | 450 N |
| AMD | 450 N |

3.5.5 Stretch and Set, range
(SAEJ 855)

| | Stretch | Set |
|---|---|---|
| WMD | 15 - 50% | 0 - 10% |
| AMD | 15 - 50% | 0 - 10% |

3.5.6 Stiffness, range
(ASTM D 747, direct reading at
60°, Span 10 mm, Load 150 cmg)

| | |
|---|---|
| WMD | 6 - 16 |
| WMD | 6 - 16 |

Note: Specimens to be tested with vinyl side down.

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