



TAPE, PRESSURE SENSITIVE, NON-STAINING, TEARABLE

WSB-M3G225-A

1. SCOPE

The material defined by this specification is an easy tear tape type with an adhesive on one side. The adhesive must be pressure sensitive over the range of -20 to 90 °C. The material must not show any transfer of adhesive upon removal.

2. APPLICATION

This specification was released originally for material used as a temporary wrapping for wiring harnesses during shipment.

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 GREEN STRENGTH

The tape shall develop sufficient adhesion to permit normal handling immediately after application.

3.5 TAPE TEAR PROPERTIES

The tape shall be hand tearable, and when torn crosswise by hand shall tear in a smooth and even manner.

3.6 PREPARATION OF TEST SPECIMENS

The tape shall be tested on actual wire strands clustered together and wrapped. Wrap the tape around a 400 to 600 mm length of wire bundle containing (6 or 8 individual wires) overlapping the first layer when wrapping. Samples shall be conditioned for 48 h at 23 +/- 2 °C and 50 +/- 5% relative humidity prior to exposure. Tests shall be completed within 4 h after removal from the conditioning environment.

3.7 RESISTANCE PROPERTIES

After each of the following exposures, the tape must not show evidence of delamination or loss of adhesion. No adhesive residue when the tape is removed from the wrapped cluster strands of wire.

3.7.1 Weathering Resistance
(SAE J1885, Xenon Arc
Exposure, 112.8 kJ/m²)

3.7.2 Heat Resistance
(7 d at 90 +/- 2 °C)

Date	Action	Revisions
2006 08 14	Revised	Inserted 3.0; Deleted 3.1, 3.2, 3.3, 3.12, 4
1994 11 17	Released	NB00110043054393



Documents

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- 3.7.3 Heat Resistance
(30 minutes at 120 +/- 2 °C)
- 3.7.4 Humidity Resistance
(7 d at 38 +/- 2 °C and
95 - 100% relative humidity)
- 3.7.5 Environmental Cycle Resistance
5 cycles, each cycle consisting of the following:
- 4 h at 90 +/- 2 °C
 - 4 h at 38 +/- 1 °C and 95 - 100% relative humidity
 - 16 h at -20 +/- 1 °C

3.8 FOGGING
(FLTM BO 116-03)

Fog Number, min 60

Formation of a clear film, droplets or crystals is cause for rejection.

Perform the test with the adhesive side of the tape bonded to aluminum foil or a steel panel.

3.9 FLAMMABILITY
(SAE J369)

Burn Rate, max 100 mm/minute

Perform the test with the adhesive side of the tape bonded to aluminum foil.

3.10 ODOR, max Rating 2
(SAE J1351)

Perform the test with the adhesive side of the tape bonded to aluminum foil.

3.11 FUNCTIONAL APPROVAL

Materials being evaluated for approval to this specification shall be subjected to a production trial. Functional trial results must be approved by the affected assembly operation and Design Engineering. Results shall be made available to Materials Engineering prior to material approval and release.

5. GENERAL INFORMATION

The information given below is provided for clarification and assistance in meeting the requirements of this specification.

5.1 MATERIAL PROPERTIES

- 5.1.1 Color
- 5.1.2 Thickness
(ASTM D 1000)
- 5.1.3 Tape Dimensions