

NAVISTAR, INC.		
Material, Parts, and Process Specifications (MPAPS)		NUMBER: MPAPS F-7099
		Former Designation: TMS-7099
TITLE: Fastener Tape Systems	CURRENT REV No.: 1612	DATE: Dec. 2016
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<i>This specification may involve hazardous materials, equipment, and procedures. This specification does not purport to address all of the safety issues associated with its use. The user is responsible to consult appropriate safety and health practices and to determine the applicability of regulatory limits prior to use.</i>		

1.0 APPLICATION

This specification covers synthetic fastener tapes or pads used for truck cab interiors. Various styles of fastener systems are available and attachment may be achieved by sewing, mechanically, or by adhesive coatings.

2.0 SCOPE

This specification covers the general requirements for color, roll length where applicable, adhesive backing if required, and colorfastness. Also included are the individual characteristics for one style (I) of tape. [Other styles may be added to this specification if required.]

2.1 Restricted Chemical Substances

Effective January 1, 2007, all product supplied to the requirements of this specification must comply with the requirements of the MPAPS B-50 specification.

3.0 REFERENCE DOCUMENTS

Unless otherwise specified, the latest issue of all referenced standards shall apply. The following standards, specifications and regulations are referenced in this specification.

Quality System Standard ISO 9001 or TS-16949	AATCC TM 8
CFR Title 29, Section 1910	ASTM D 1682
NAVISTAR Supplier Packing and Shipping Std. D-13	
NAVISTAR Eng. Design Std. A-16	
NAVISTAR MPAPS B-50	
NAVISTAR MPAPS P-9543	

4.0 GENERAL REQUIREMENTS

The following general requirements apply to all styles of tape supplied to this specification.

4.1 Individual Characteristics

4.1.1 Style I

Woven hook and pile fastener tapes (Formerly TMS-7099 Grade A or B Style 1)

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4.2 Construction

Consists of a nylon hook tape and a nylon pile tape, each with a nylon ground. Two hook tapes are available (Grade A and B) with varying hook size and number of hooks per unit of area.

	<u>GRADE A</u>	<u>GRADE B</u>
Monofilament size (hook)	6.5 mil	8.0 mil
Hooks per cm ² (in ²), min	55 (350)	27 (175)

4.3 Description

Color, texture and finish of production material supplied must match master samples of the pre-production material originally approved and on file in the Master Fabric Book in the Navistar Industrial Design Department.

4.4 Roll Length (where applicable)

Materials shall be supplied in 22, 45, or 90 m (25, 50, or 100 yd) rolls unless otherwise agreed upon by the supplier and using Navistar facility.

4.5 Adhesive Backing

Adhesive backing, if required, shall be suitable for the intended application, providing adhesion to the substrate which exceeds the disengagement force of the fastener system.

4.6 Colorfastness: AATCC Test Method 8

Crocking test, performed both wet and dry, shall show no applicable staining of the contact fabric and have a minimum AATCC rating of four (4) when compared with the AATCC Color Transference Evaluation Chart.

4.7 Property And Performance Requirements

4.7.1 Tensile (Breaking) Strength: ASTM D 1682

The tensile strength of the individual tapes shall be as indicated in Table I below:

TENSILE STRENGTH, $\frac{kN}{(lbf)}$ MINIMUM

WIDTH, mm (in)	<u>50(2)</u>	<u>38 (1-1/2)</u>	<u>25(1)</u>	<u>18(3/4)</u>	<u>16(5/8)</u>
Grade A Hook Tape	$\frac{0.96}{(215)}$	$\frac{0.64}{(145)}$	$\frac{0.51}{(115)}$	$\frac{0.38}{(85)}$	$\frac{0.36}{(80)}$
Grade B Hook Tape	$\frac{0.96}{(215)}$	$\frac{0.76}{(170)}$	$\frac{0.56}{(125)}$	$\frac{0.44}{(100)}$	$\frac{0.36}{(80)}$
Pile Tape	$\frac{0.96}{(215)}$	$\frac{0.67}{(150)}$	$\frac{0.44}{(100)}$	$\frac{0.29}{(65)}$	$\frac{0.27}{(60)}$

4.7.2 The following tests shall be performed on tape assemblies using the standard pile tape in combination with the two grades of hook tape.

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