

NAVISTAR, INC.		
Material, Parts, and Process Specifications (MPAPS)		NUMBER: MPAPS D-7126
		<i>Former Designation: TMS-7126</i>
TITLE: Carpet Trim Materials		CURRENT REV No.: 1610
		DATE: Oct. 2016
WRITTEN/EDITED BY: D. Baker	APPROVED BY: R. Goluch	SUPERSEDES: Rev. 1006 – June 2010
PRINTED COPIES OF THIS DOCUMENT MUST BE VERIFIED FOR CURRENT REVISION		
<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>		

Part 1

1.0 APPLICATION

This specification covers carpet and trim materials suitable for use in floor and trim applications.

2.0 SCOPE

This specification covers all carpet and trim materials. Part 1 of the specification describes general and performance requirements and certification of flammability resistance, which pertain to all products. Qualification, quality control and source approval, and shipping and identification requirements, common to all products, are also included in Part 1. Requirements for construction, material, finished weight, strength, and abrasion resistance for each particular type of material (Type A, Type B, etc.) are covered in Part 2 of this specification.

2.1 Restricted Chemical Substances

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

3.0 REFERENCE DOCUMENTS

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

Quality System Standard ISO 9001 or TS-16949	NAVISTAR MPAPS D-7028	SAE J322
NAVISTAR Supplier Packing and Shipping Standard D-13	NAVISTAR MPAPS P-9543	SAE J855
CFR Title 29, Part 1910	NAVISTAR MPAPS DT-12	SAE J860
AATCC Evaluation Procedure 1	FMVSS 571.302	SAE J861
AATCC Color Transf. Chart	ASTM D 123	SAE J882
NAVISTAR MPAPS D-7005	ASTM D 1239	SAE J912
NAVISTAR MPAPS D-7113	ASTM D 1682	SAE J1530
NAVISTAR MPAPS GT-31	ASTM D 1683	
NAVISTAR MPAPS B-50	ASTM D2097	
NAVISTAR MPAPS P-9544	ASTM D 2136	
ASTM G 53		

This document is restricted and may not be sent outside Navistar, Inc. or reproduced without permission from Corporate Technical Standards. Suppliers are required to assume all patent liability. ©2016 by Navistar, Inc.

JUNE 2016

NUMBER: MPAPS D-7126	TITLE <i>Carpet Trim Materials</i>	Revision 1610
--------------------------------	--	-------------------------

Part 1

3.1 Definitions

For definition of terms relating to textiles and fabric products, see ASTM D 123.

4.0 GENERAL REQUIREMENTS

All products supplied shall meet the requirements shown in Part 1 and in addition shall meet the requirements for the specific type of product (Type A, Type B, etc.) as shown in Part 2. If the material is bonded or laminated, see MPAPS D-7028 for further requirements of the assembly.

4.1 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 at Navistar Industrial Design Department.

4.2 Material Lay

Material must be fabricated in such a manner that wrinkles or fullness shall not occur between edges when material is rolled out on a flat surface and in a straight line for a minimum of 17.4 m (19 yd) lengths. Material must be rolled with facing side out.

4.3 Performance Requirements

Unless otherwise specified, the material shall be conditioned and tested under standard conditions, $21 \pm 2^\circ\text{C}$ and $50 \pm 5\%$ RH.

4.3.1 Accelerated Weathering per MPAPS GT-31, Zone C

All materials shall qualify to one of the two following tests:

4.3.1.1 Fluorescent UV: Method F

4.3.1.1.1 Expose sample to 100 hours continuous UV-A fluorescent light (w/o condensation cycle) at 40°C .

4.3.1.2 Xenon Arc: Method A

4.3.1.2.1 Interior cycle, $225\text{ kJ/m}^2\text{ min}$.

4.3.1.3 Required (Either Method): There will be no sign of color alteration greater than ΔE of 3, decreased pliability or fiber degradation after exposure. A minimum rating of 3.0 per AATCC Evaluation Procedure 1.

4.3.2 Mildew Resistance: AATCC Method 30

Shall not exhibit any objectionable odor or growth of mildew.

4.3.3 Flammability Resistance: MPAPS P-9544 (FMVSS 571.302)

Material supplied to this specification shall meet all requirements MPAPS P-9544 and the latest issue of Federal Motor Vehicle Standard #302 - Flammability of Interior Materials. The supplier shall provide certification of compliance in accordance with requirements of MPAPS P-9543.

4.3.4 Colorfastness to Rubbing: MPAPS DT-12

4.3.4.1 Method

Perform crocking test dry, wet, and with 100% petroleum naphtha and with chemicals listed in MPAPS DT-12, Method A.

4.3.4.2 Required

Minimum AATCC Rating of 4.

This document is restricted and may not be sent outside Navistar, Inc. or reproduced without permission from Corporate Technical Standards. Suppliers are required to assume all patent liability. ©2016 by Navistar, Inc.

OCTOBER 2016

NUMBER: MPAPS D-7126	TITLE <i>Carpet Trim Materials</i>	Revision 1610
--------------------------------	--	-------------------------

Part 1

5.0 QUALITY

Material shall be free from objectionable odor, have flexibility necessary for good tailoring, be uniform in quality, and match the color and finish of preproduction approved samples.

6.0 QUALIFICATION

Engineering qualification of sources is required in advance of production shipments. Samples shall be accompanied by test data certifying that all requirements of the specification have been met. *Suppliers shall submit samples for approval of finish, luster, color and appearance to the Navistar Industrial Design Group. Upon approval, styling master samples denoting the minimum level of acceptable appearance quality shall be developed and retained by the supplier and the quality department of each using NAVISTAR facility.*

6.1 Quality Control Plan

A Quality Control Plan for products supplied to the requirements of this specification will be established by mutual agreement between NAVISTAR and the supplier (the following attributes are recommended for receiving inspection: color, finish, tensile strength, tear strength, and weight). Unless specific exception is noted, the following characteristics, where applicable*, shall be included in the plan as features for management by statistical process control.**



- * Other characteristics for inclusion in the control plan may be specified on the engineering drawing and/or purchase order.
- ** See NAVISTAR Engineering Design Standard A-16

7.0 SOURCE APPROVAL AND QUALITY CONTROL

7.1 Supplier Requirements

All suppliers to NAVISTAR are required to be registered to ISO 9001 Quality System Requirements. NAVISTAR will also accept TS-16949 registration as long as the supplier can also fulfill all AIAG PPAP (Production Part Approval Process) documentation and approval requirements. Suppliers must maintain their certification with an accredited registrar and must furnish copies of registration certificates to their Corporate Buyer upon request.

7.2 Approval

Parts supplied against contracts or purchase orders citing this specification shall be equivalent in all respects to those samples which were approved by the purchaser. No changes in formulation or processing practices are permitted without approval. In the event that changes in material, properties, processing practices, construction, color, or labeling of the product are required, the supplier shall notify

This document is restricted and may not be sent outside Navistar, Inc. or reproduced without permission from Corporate Technical Standards. Suppliers are required to assume all patent liability. ©2016 by Navistar, Inc.

OCTOBER 2016