

INTERNATIONAL TRUCK AND ENGINE CORPORATION		
(TMS) TRUCK MATERIAL SPECIFICATION		NUMBER: TMS-6502
TITLE: Urethane, Cellular, Molded		REVISION: C-1
WRITTEN/EDITED BY: Materials Engineering	APPROVED BY: Materials Engineering	DATE ISSUED: August 2001
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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>		
Change Notice: Reformatted and Editorial Changes		
Reference: File 30-16B	Keywords: Urethane Foam, Urethane Padding	

1.0 APPLICATION

This specification covers a molded cellular polyurethane material which is used as an instrument panel crash padding and other interior trim applications where shock absorbing is needed. Optional: A specially formulated synthetic latex.

2.0 SCOPE

This specification covers the general requirements, property and performance requirements, quality, source and quality control, qualification, and packaging.

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 QS-9000 (ISO 9001)	FMVSS 201
INTERNATIONAL IQR Quality Standard	FMVSS 107
INTERNATIONAL Manufacturing Standard D-13	FMVSS 302
CFR Title 29, Part 1910	INTERNATIONAL TMS-9544

4.0 GENERAL REQUIREMENTS

4.1 Material

Molded cellular polyurethane or synthetic latex processed to meet the requirements of the latest issue of Federal Motor Vehicle Safety Standard No. 201 and TMS-9544.

4.2 Gloss

Material used in interior trim applications such as an instrument panel shall meet the surface gloss reflectance requirements on the finished surface of the latest issue of Federal Motor Vehicle Safety Standard No. 107.

4.3 Manufacture

The urethane foam shall be processed so that it can be molded to a slush molded plastisol skin or ABS plastic sheet with and without polymers.

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4.4 Description

The color, finish, and gloss of finished parts shall match approved master samples in the Styling Department, TDTC.

4.5 Property And Performance Requirements

4.5.1 Flammability

Material and parts supplied to this specification shall conform to and be certified by the supplier to meet the requirements of Federal Motor Vehicle Safety Standard No. 302 - Flammability of Interior Materials, and all requirements of TMS-9544.

5.0 QUALITY

The finished part shall be free from intense or offensive odor. Residual parting agent on the surface of the finished part shall in no way contribute to contamination, fading, or discoloration of the plastisol skin surface.

6.0 SOURCE APPROVAL AND QUALITY CONTROL

6.1 Supplier Requirements

Suppliers must conform to the requirements of the International IQR Quality Standard which includes conformance to the QS-9000 (ISO 9001) Quality System Standard. A mutually acceptable Quality Control Plan as described therein is required for source approval to the requirements of this specification.

6.2 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 International TDTC and International Purchasing and Supplier Development of the proposed change(s). Test data indicating conformance to all requirements of this specification, test samples, and new or amended or updated Material Safety Data Sheet(s) (MSDS), in accordance with CFR Title 29, Part 1910 shall be submitted with the request for change.

6.3 Process Control

The supplier shall either perform and report results of tests on specific lots of parts produced or provide statistical evidence of the lot having been produced in a state of statistical control and with a process capable of providing all required properties. The part supplier and the plant metallurgist and/or the quality control manager of the using International plant may determine testing and reporting requirements on specific products.

7.0 SHIPPING,PACKING AND IDENTIFICATION

Parts shall be packed in suitable containers to afford protection against damage during shipment and storage, and shall meet the requirements of Manufacturing Standard D-13.

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