

**AEROSPACE
MATERIAL
SPECIFICATION**

Issued 1955-03
Revised 1993-01
Reaffirmed 1998-09
Stabilized 2012-01

Superseding AMS3635D

Plastic Sheet and Strip, Modified Vinyl, Foamed
Closed Cell

RATIONALE

This document has been determined to contain basic and stable technology which is not dynamic in nature.

STABILIZED NOTICE

This document has been declared "Stabilized" by SAE AMS P, Polymeric Materials Committee, and will no longer be subjected to periodic reviews for currency. Users are responsible for verifying references and continued suitability of technical requirements. Newer technology may exist.

SAE Technical Standards Board Rules provide that: "This report is published by SAE to advance the state of technical and engineering sciences. The use of this report is entirely voluntary, and its applicability and suitability for any particular use, including any patent infringement arising therefrom, is the sole responsibility of the user."

SAE reviews each technical report at least every five years at which time it may be reaffirmed, revised, or cancelled. SAE invites your written comments and suggestions.

Copyright © 2012 SAE International

All rights reserved. No part of this publication may be reproduced, stored in a retrieval system or transmitted, in any form or by any means, electronic, mechanical, photocopying, recording, or otherwise, without the prior written permission of SAE.

TO PLACE A DOCUMENT ORDER: Tel: 877-606-7323 (inside USA and Canada)
Tel: +1 724-776-4970 (outside USA)
Fax: 724-776-0790
Email: CustomerService@sae.org
<http://www.sae.org>

SAE WEB ADDRESS:

**SAE values your input. To provide feedback
on this Technical Report, please visit
<http://www.sae.org/technical/standards/AMS3635E>**

1. SCOPE:

1.1 Form:

This specification covers a modified vinyl plastic foam in the form of sheet and strip up to 1-1/2 inches (38.1 mm) in nominal thickness.

1.2 Application:

These products have been used typically for parts, such as head rest pads and arm rests, requiring an impact-resistant, slow-recovery, energy-absorbing product, but usage is not limited to such applications.

1.3 Safety - Hazardous Materials:

While the materials, methods, applications, and processes described or referenced in this specification may involve the use of hazardous materials, this specification does not address the hazards which may be involved in such use. It is the sole responsibility of the user to ensure familiarity with the safe and proper use of any hazardous materials and to take necessary precautionary measures to ensure the health and safety of all personnel involved.

2. APPLICABLE DOCUMENTS:

The following publications form a part of this specification to the extent specified herein. The latest issue of SAE publications shall apply. The applicable issue of other publications shall be the issue in effect on the date of the purchase order.

2.1 SAE Publications:

Available from SAE, 400 Commonwealth Drive, Warrendale, PA 15096-0001.

AMS 2810 Identification and Packaging, Elastomeric Products

2.2 ASTM Publications:

Available from ASTM, 100 Barr Harbor Drive, West Conshohocken, PA 19428-2959.

ASTM D 297 Rubber Products - Chemical Analysis

ASTM D 573 Rubber - Deterioration in an Air Oven

ASTM D 1056 Flexible Cellular Materials - Sponge or Expanded Rubber

2.3 U.S. Government Publications:

Available from DODSSP, Subscription Services Desk, Building 4D, 700 Robbins Avenue, Philadelphia, PA 19111-5094.

FAR Part 25 Airworthiness Standards: Transport Category Airplanes

3. TECHNICAL REQUIREMENTS:

3.1 Material:

Shall be a closed-cell, modified vinyl plastic foam; it may have a skin on one face at the option of the vendor, unless otherwise agreed upon by purchaser and vendor. Edges of sheets and strips may show exposed cell structure.

3.1.1 Color: Shall be natural (light beige).

3.1.2 Odor: The product shall have no unpleasant odor after being exposed to still air for 48 hours.

3.2 Properties:

The product shall conform to the requirements shown in Table 1, 3.2.7, and 3.2.8; tests shall be performed on the product supplied and in accordance with specified test methods, insofar as practicable: