



SURFACE VEHICLE RECOMMENDED PRACTICE

J323™

SEP2021

Issued 1968-08
Revised 2009-11
Stabilized 2021-09

Superseding J323 NOV2009

Test Method for Determining Cold Cracking of Flexible Plastic Materials

RATIONALE

The technical report covers technology, products, or processes which are mature and not likely to change in the foreseeable future.

STABILIZED NOTICE

This document has been declared "Stabilized" by the SAE Textile and Flexible Plastics 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 Executive Standards Committee 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 revised, reaffirmed, stabilized, or cancelled. SAE invites your written comments and suggestions.

Copyright © 2021 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:

Full document details: SAE J323_202109

For more information on this standard, visit
https://www.sae.org/standards/content/J323_202109

Documents

Document Sharing Hub

1. SCOPE

This SAE Recommended Practice is applicable for determining the cold characteristics of flexible plastic materials, as applicable. It consists of three different methods for determining low-temperature properties of materials depending on type of material and end use. The method used shall be as specified by the contractual parties.

2. REFERENCES

2.1 Applicable Publications

The following publications form a part of the specification to the extent specified herein.

2.1.1 ASTM Publication

Available from ASTM International, 100 Barr Harbor Drive, P.O. Box C700, West Conshohocken, PA 19428-2959, Tel: 610-832-9585, www.astm.org.

ASTM D 3574 Standard Test Methods for Flexible Cellular Materials—Slab, Bonded, and Molded Urethane Foams

3. METHOD A, MANDREL TEST

3.1 Apparatus and Materials

3.1.1 Mandrel

Steel mandrel nominally 6.35 mm in diameter and 152 mm long attached to a suitable stand. Other diameters may be specified depending on the thickness and rigidity of the material to be tested.

3.1.2 Oven

Air-circulating oven capable of maintaining a temperature of $82\text{ }^{\circ}\text{C} \pm 2\text{ }^{\circ}\text{C}$.