SYMPOSIUM ON SIMULATED SERVICE TESTING OF PACKAGING

Presented at the SIXTY-FIFTH ANNUAL MEETING AMERICAN SOCIETY FOR TESTING AND MATERIALS New York, N. Y., June 25, 1962

ASTM Special Technical Publication No. 324

Price $2.50; to Members $2.00

Published by the AMERICAN SOCIETY FOR TESTING AND MATERIALS 1916 Race St., Philadelphia 3, Pa.
FOREWORD

This Symposium on Simulated Service Testing of Packaging is designed to acquaint people from the many disciplines represented in ASTM with the magnitude of the problems which all industry faces in the packaging area. The first three papers deal essentially with problems and solutions in the area of package dynamics. The last deals with product-package relationships from the standpoints of package survival and public health.

The symposium was sponsored by the Administrative Committee on Simulated Service Testing, ASTM Committee D-10 on Packaging, and ASTM Committee F-2 on Flexible Barrier Materials. Symposium Chairman J. W. Goff, Michigan State University, presided over the session, which was held June 25, 1962, as part of the Sixty-fifth Annual Meeting of the Society in New York, N. Y.
NOTE.—The Society is not responsible, as a body, for the statements and opinions advanced in this publication.
CONTENTS

Introduction—J. W. Goff ......................................................... 1
Mechanics of Packaging Cushioning—C. E. Crede .......................... 3
The Need for Better Simulated Service Tests for Packaging—C. A. Jordan .......... 22
Rail-Car Impact Simulator—D. Patterson, Jr., and P. R. Lantos ............... 28
Polyethylene—Environmental Stress Rupture and Blown Bottles—L. L. Lander and
R. H. Carey ........................................................................... 39
THIS PUBLICATION is one of many issued by the American Society for Testing and Materials in connection with its work of promoting knowledge of the properties of materials and developing standard specifications and tests for materials. Much of the data result from the voluntary contributions of many of the country's leading technical authorities from industry, scientific agencies, and government.

Over the years the Society has published many technical symposiums, reports, and special books. These may consist of a series of technical papers, reports by the ASTM technical committees, or compilations of data developed in special Society groups with many organizations cooperating. A list of ASTM publications and information on the work of the Society will be furnished on request.