Sixty-first Annual Meeting Papers

Symposium on

PAPER AND PAPER PRODUCTS



Published by the

AMERICAN SOCIETY FOR TESTING MATERIALS

1916 Race St., Philadelphia 3, Pa.

ASTM Special Technical Publication No. 241

SYMPOSIUM ON PAPER AND PAPER PRODUCTS—

New Developments with Accompanying Requirements for New Testing Methods

Presented at the

SIXTY-FIRST ANNUAL MEETING

AMERICAN SOCIETY FOR TESTING MATERIALS

Boston, Mass., June 26, 1958



Reg. U.S. Pat. Off.

ASTM Special Technical Publication No. 241

Price \$2.75; to Members \$2.20

Published by the

AMERICAN SOCIETY FOR TESTING MATERIALS

1916 Race St., Philadelphia 3, Pa.

© By American Society for Testing Materials 1959 Library of Congress Catalog Number: 58-59794

FOREWORD

The papers and discussions in the Symposium on Paper and Paper Products—New Developments with Accompanying Requirements for New Testing Methods, were presented at the Thirty-fourth and Thirty-sixth Sessions of the Sixty-first Annual Meeting of the Society held on June 26, 1958, in Boston, Mass.

This symposium was sponsored by Committee D-6 on Paper and Paper Products to acquaint the paper consumer with recently developed new tests, and to encourage discussion of well-established tests in the light of new approaches to paper manufacture. The symposium was developed by a Symposium Committee consisting of W. R. Willets, Paper Development Laboratory, Titanium Pigment Corp., New York, N. Y.; L. S. Reid, General Purchasing Agent, Metropolitan Life Insurance Corp., New York, N. Y.; and under the chairmanship of H. A. Birdsall, Member, Technical Staff, Bell Telephone Laboratories, Murray Hill, N. J. The co-chairmen for the symposium sessions were F. F. Newkirk, Research Director, American Sisalkraft Corp., Attleboro, Mass., and H. A. Birdsall.

Note.—The Society is not responsible, as a body for the statements and opinions advanced in this publication.

CONTENTS

	PAGE
Introduction—H. A. Birdsall	. 1
Some Historical Developments in Paper Testing-W. R. Willets and F. R. Marchetti	
Discussion	
Testing of Synthetic Fiber Papers—F. H. Koontz, and J. K. Owens	. 14
Discussion	
Nonwoven Fabrics and Synthetic Fiber Papers: Technology and End Uses—J. T	
Taylor and P. J. McLaughlin	26
Discussion	34
New Developments in the Internal Bonding of Paper-K. W. Britt and J. W. Eastes	35
Discussion	41
A New Cotton Paper Furnish—J. A. Harpham	43
Clupak Paper—A New Type of High Stretch Paper—Its Manufacture and Perform	-
ance—R. J. Diaz	
Discussion	61
Relative Humidity Measurements in Package Materials Testing—B. H. Schrier and	i
P. K. Wolper	64

