Key Enabling Technologies, Market Potential and New Business Opportunities

# Stretchable Nonwovens Report 2009 – 2014



Smith, Johnson & Associates

## Stretchable Nonwovens Key Enabling Technologies, Market Potential & New Business Opportunities

### 2009-2014

- Major enabling technologies and in-depth evaluations
- New business opportunities and forecasts by market segment
- Value proposition and benefits of stretchable nonwovens
- 45 top new developments during 2008-2009



#### ASSOCIATION OF THE NONWOVEN FABRICS INDUSTRY

P.O. Box 1288, Cary, North Carolina 27512-1288, U.S.A. 1100 Crescent Green, Suite 115, Cary, North Carolina 27518, U.S.A.

Tel: (919) 233-1210 Fax: (919) 233-1282 Web Site: www.inda.org INDA is a registered trademark of INDA, Association of the Nonwoven Fabrics Industry

Smith, Johnson & Associates Worldwide Consultants to the Nonwoven Industry

Smith, Johnson & Associates, 116 Millstone Way, Monroeville, NJ 08343, USA

Tel: (856) 243-5730 Fax (856) 478-0455 Web Site: www.sjanonwovens.com

Copyright© 2010 INDA, Association of the Nonwoven Fabrics Industry and Smith, Johnson & Associates. All rights reserved. This material may not be reproduced, in whole or in part, in any medium whatsoever, without the express written permission of INDA, Association of the Nonwoven Fabric Industry and Smith, Johnson & Associates.

#### **TABLE OF CONTENTS**

	Section	<u>Page (#)</u>
I.	Executive Summary	1
II.	Introduction and Methodology	69
	The Value Proposition and Benefits of Stretchable Nonwovens	79
IV.	Key Markets, New Applications and Forecast for Stretchable Nonwovens	87
V.	New Developments	125
VI.	Major Enabling Technologies	
	A. Stretchable Bicomponent Spunbond	157
	B. Stretch Activation Processes	171
	C. Polymers: Elastomers and Extensible Blends	209
	D. Composites and Laminates	245
	E. Other (Alternative Forms)	263
VII.	Appendix	
	A. List of Tables	269
	B. List of Figures	273
	C. Patents by Company	277
	D. Selected Terms and Definitions	297
	E. References	303