

TAPPI Press

11th TAPPI European
Place Conference
2007

May 14-16, 2007
Athens, Greece

Volume 1 of 3

Printed from e-media with permission by:

Curran Associates, Inc.
57 Morehouse Lane
Red Hook, NY 12571
www.proceedings.com

ISBN: 978-1-60560-509-8

Some format issues inherent in the e-media version may also appear in this print version.

Copyright© (2007) by TAPPI Press.
All rights reserved.

For permission requests, please contact TAPPI Press
at the address below.

TAPPI Press
15 Technology Parkway South
Norcross, GA 30092

TAPPI Press

11th TAPPI European Place Conference
2007

TABLE OF CONTENTS

Volume 1

An Overview of Food Contact Legislation of Multilayers	1
<i>R. Veraart</i>	
Impact of EU Reach Regulation on the Packaging Supply	36
<i>H.K. Onusseit</i>	
Tubular LDPE has the Extrusion Coating Future	87
<i>M. Neilen</i>	
Particularities of Extrusion to Design Peelable Structures for PP, PS, PET & PVC Substrates	97
<i>J. Pascal</i>	
New Developments in Plexar® tie-layer Adhesives	123
<i>M.G. Botros</i>	
What Can Happen to Polymer Granules from the Supplier's Silo to the Extruder Hopper?	175
<i>O. Plassmann</i>	
Printed Intelligence in Packaging	217
<i>E. Hurme</i>	
Protecting Brand While Gaining Operational Efficiencies with Item Level RFID	243
<i>K. Viskari</i>	
Additives for Polyolefins: Chemistry Involved and Innovative Effects	268
<i>M. Destro</i>	
Resin Characteristics and Interaction with Die Design	311
<i>G. Oliver</i>	
Improved Process Performance of Flat Dies by a Much Wider Die Gap Operation Window and a New Surface Finish of the Die Body	340
<i>O. Plassmann</i>	
Modern Extrusion Coating Die Technology	367
<i>S.G. Iuliano</i>	
Getting More Performance from an Existing Extrusion Coating Dryer	401
<i>W.R. Henry</i>	
Organic, Natural Pigments As Paper Coatings	440
<i>J. Raukola</i>	
Clear Barrier at Atmospheric Pressure	452
<i>R.A. Wolf</i>	
Low Cost Extrusion Coating Improvements	482
<i>L.W. Piffer</i>	
Aqueous Dispersions of Polyolefins	567
<i>R. Wevers</i>	

Volume 2

Coating of Polyester Film with Thin Wax Layers	600
<i>B. Daetwyler</i>	
How Gravure Coating Can Eliminate "MUDA" Waste	664
<i>F. Umbach</i>	
Reduction of Downtime, Quality Improvement and Customer Satisfaction with High Speed Web Inspection Systems	688
<i>M. Lehmkoetter</i>	
Online Quality Control of Polymers and Extruded Films	738
<i>O. Hissmann</i>	
Real-time and In-line Optical Monitoring of Functional Nano-layer Deposition on Flexible Polymeric Substrates	795
<i>S. Logothetidis</i>	
Industrial Inline Control for Advanced Vacuum Coating Roll to Roll System	869
<i>G. Steiniger</i>	
Transparent High Barrier Laminates Manufactured by Extrusion Lamination Process	902
<i>H.R. Naegeli</i>	
New Tools for Aroma Barrier Testing	929
<i>M.O. Vaha-Nissi</i>	
Adhesion to Foil - More Than Just a One-sided Story	963
<i>G. Schubert</i>	
Advances in Airtight Paperboard Packaging	1000
<i>J. Jarvinen</i>	
Prediction of WVTR with General Regression Models	1023
<i>K. Lahtinen</i>	
Analysis of the Free Surface Instabilities in Extrusion/Coextrusion Flows for Metallocene Based Polyolefins	1055
<i>J. Vlcek</i>	
A Model to Predict the Ability of a Flexible Package to Contain Materials	1110
<i>R.B. Allen</i>	
Optimisation of a Multi Layer Extrusion Flow by Varying Slip, Using Visco-elastic Simulations	1138
<i>M. Klaassen</i>	

Volume 3

Pet Extrusion Coating - Taking Extrusion Coating to a New Level	1164
<i>M.H. Peltovuori</i>	
A Comparison of Different Unwind and Splice Systems	1190
<i>M. Schroeder</i>	
Basic Polymer Rheology, as Related to Extrusion Coating Machinery	1225
<i>D.R. Constant</i>	

Developments in On-line Gauging of Complex Extrusion Coating - an Update	1271
<i>S. Schoneberger</i>	
Transparent Inorganic Barrierfilms	1300
<i>Thomas Glaw</i>	
Barrierfilm Production 9-Layer Blown-in Comparison with 9-Layer Cast Film	1339
<i>G. Winkler</i>	
The Use of Metallocene Polyethylene in Co-extruded Lamination Films	1344
<i>S. Viganò</i>	
Corona Experiences on Paper and Cardboard	1372
<i>R. Weber</i>	
Cold Atmospheric Plasma Technology for Surface Pretreatment and Coating	1398
<i>D. Vangeneugden</i>	
The Effects of Corona and Flame Treatment: Part 1: LDPE Coated Packaging Board	1446
<i>M. Tuominen</i>	
The Basics of the United States Food and Drug Administration's Regulations of Food Contact Materials	1488
<i>D.J. Ettinger</i>	
Elongational Viscosity in Quality Control Aspired Category: Characterization of Raw Materials	1529
<i>M. Stadlbauer</i>	
Relationship of Rheological Behaviour and Molecular Architecture for LDPE's Designed for Extrusion Coating	1554
<i>B. Nijhof</i>	
A 21st Century Toolbox for Characterizing Next Generation Extrusion Coating Resins	1579
<i>A.W. de Groot</i>	
Beyond the Hype - the Perspective of the Polyolefin Industry on Biomass-based and Biodegradable Polymers	1611
<i>S. Lhote</i>	
New Developments in Biopolymers for Film Extrusion	1628
<i>P. Bullock</i>	
The New Challenge for the Packaging Industry - Laminates in South-East Asia and China	1653
<i>I. Bueren</i>	

Author Index