

# Film Extrusion Manual

PROCESS, MATERIALS, PROPERTIES

**SECOND EDITION  
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## Preface

*Film Extrusion Manual* is the result of four years of intensive team effort to update the 1992 publication. The undertaking of this project is so large that it had to be approached a step at a time. The starting point of having the first manual was very helpful to form a basis to start out on this new project over now. I would like to thank my coeditor on the first book, Earl Veazey, for his leadership and vision. There were several ideals incorporated to improve on the original material, and add new technology that has been introduced in the intervening years. The world economic situation during this time was challenging to say the least. The many professionals that are necessary in an undertaking of this size were in the mist of significant changes within their companies, which required their attention, limiting the time available for this project. We offer our gratitude to our employers that permitted the authors and editors the time required to assemble this information. I must admit that there were times when I was not sure it was going to get completed. But things have a way of getting done, and I think that this book will be every bit as successful as the first.

This comprehensive publication on the technology and science of polymer film extrusion should be an excellent stand-alone training resource for any professional entering into this industry. It is hoped that the material in this book may be used to learn the basics of applied extrusion theory, and provide troubleshooting guidelines with solutions to many common problems encountered in fabrication of thermoplastic films.

The sources of the material covered in *Film Extrusion Manual* was selected from a combination of sources such as authors of papers presented at the annual conferences, short courses, and subject matter experts across the industry. We hope that we have included some of the answers you are looking for, and that you find new ideals of how you can improve your company.

I would like to thank the many professional engineers, scientists, and technical experts that have made the plastic films business what it is today. Many of these pioneers over the last ten years have retired or moved on to other challenging opportunities. I would like to dedicate this book to all the creative and innovative people over the years that have made the PL&C, now the PLACE Division of TAPPI, the place to be for film technology.

The *Film Extrusion Manual* has been such an enjoyable project to work on, because of the people in the Film Committee. I thank you for your support.

**THOMAS I. BUTLER**  
**EDITOR**  
**FILM EXTRUSION MANUAL**

## TAPPI Film Extrusion Manual Editors

We very indebted to the editors who spent hours preparing each chapter for publishing. Editors of the *Film Extrusion Manual* include the following:

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John Perdikoulis	Compuplast
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David Timm	Charter Films
Gary Oliver	Cloeren Incorporated

We also appreciate the efforts of the TAPPI professional staff who have reworked the chapters and prepared them for final publication. It has been a pleasure to work with the many professionals in the plastic films industry who have volunteered their time and skills with what we believe is an excellent update of the first *Film Extrusion Manual*. We have tried to add new technology and organize the previous material into an effective format. It is our hope that this work will serve as a training resource for all levels of professional and operations personnel working in the plastics film industry including; plastic film manufacturing, converting, equipment suppliers, and polymer suppliers.

Again, our sincere appreciation to all involved in bringing the second *Film Extrusion Manual* to a reality. And I would also like to acknowledge all the professionals involved in the first *Film Extrusion Manual*, without whom this second version would have been a enormous task.

**THOMAS I. BUTLER**

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# Table of Contents

<b>CHAPTER ONE: SAFETY IN FILM EXTRUSION</b> .....	1
<b>Nicole E. Dowling and Laura K. Mergenhagen</b>	
Introduction .....	1
Preparation .....	1
Training .....	1
Procedures .....	2
Potential Hazards .....	2
Slipping and Tripping .....	2
Burns .....	2
Electricity .....	2
Heat, Noise, and Fumes .....	3
Pinch Points .....	3
Cuts .....	3
Ozone .....	3
Extrusion .....	3
Pre-heat and Startup .....	3
Transfer Piping .....	3
Purging .....	4
Screen Changers .....	4
Post-extrusion .....	5
Blown Film Towers and Nip Rolls .....	5
Corona .....	5
Slitting .....	5
Winding and Cooling .....	5
Maintenance .....	5
Opening Equipment .....	5
Inspections .....	5
Summary .....	6
Literature Cited .....	6

<b>CHAPTER 2: FILM EXTRUSION INTRODUCTION</b> .....	7
<b>George E. Ealer</b>	
Introduction .....	7
Pre-Polyolefins .....	7
Polyethylene .....	8
Equipment Technology .....	9
Extruder Technology .....	9
Dies, Air Rings and Rates .....	10
Film Additives .....	11
Film Markets .....	11
Coextrusion .....	12
Acknowledgments .....	13
Literature Cited .....	13
Resources .....	13
<b>CHAPTER 3: FILM APPLICATIONS</b> .....	15
<b>Don Schwank</b>	
Introduction .....	15
Film Fabrication Processes .....	15
Packaging Films .....	16
Food Packaging .....	16
Non-Food Packaging .....	17
Non-Packaging Films .....	19
Summary .....	19
Literature Cited .....	19
<b>CHAPTER 4: MATERIAL HANDLING SYSTEMS</b> .....	21
<b>Clifford J. Weinpel</b>	
Introduction .....	21
Bulk Unloading and Storage .....	22
In Plant Distribution .....	23
Piping Systems .....	28
Controls .....	29
Gravimetric Metering and Blending .....	30
Scale Basics .....	31
Metering .....	32
Slide Gates and Valves .....	32
Vibratory Pan Feeders .....	32



Auger Feeders .....	32
Blending/Mixing .....	33
Passive (Static) Mixers .....	33
Active (Dynamic) Mixers .....	33
Packaged Gravimetric Metering and Blending Systems .....	34
Gain in Weight—Batch Blender .....	34
Loss in Weight—Target Weight Blenders .....	35
Loss Weight Blenders—Target Rate .....	36
Additive Proportioning Blenders—Feed Throat .....	38
Gravimetric Film and Sheet Recycling .....	39
Volumetric Scrap Recovery .....	39
Gravimetric Scrap Recovery .....	40
Gravimetric Extrusion Control .....	41
Accuracy and Resolution .....	42
Summary .....	44
Addendum "A" .....	44
Addendum "B" .....	47
Addendum "C" .....	49
Addendum "D" .....	53
<b>CHAPTER 5: THE FILM EXTRUDER .....</b>	<b>55</b>
<b>Donn C. Lounsbury and Bill Hellmuth</b>	
Introduction .....	55
The Extruder .....	55
The Barrel and Feed Section .....	55
Barrel Heating and Cooling Systems .....	56
Closed-loop Liquid Cooling .....	57
Gearcase and Thrust Bearing Assembly .....	59
Screws .....	63
Extruder Drives .....	69
The D C Static Drive .....	69
A C Variable Frequency Drive .....	70
Description .....	71
Heat Control Panels .....	72
Extruder Maintenance .....	72
Preventive Measures .....	75
Unusual Noise Indicators .....	76

**x Film Extrusion Manual**

Drive Motor Maintenance ..... 76

Stocking Spares and Limiting Downtime ..... 77

Screw Removal: Why, When, and How ..... 78

The Grooved-feed Extruder ..... 79

History ..... 79

Concept and Description ..... 80

The Process ..... 80

Screw Characteristics ..... 82

    Controls ..... 82

    Performance Data ..... 82

Literature Cited ..... 85

  

**CHAPTER 6: INSTRUMENTATION AND PROCESS CONTROL ..... 87**

**Ted Schnackertz**

Introduction ..... 87

    The Technologies-Sensors ..... 87

    Typical Beta Sensors/Applications ..... 88

    Typical GBS Applications ..... 89

    Typical IR Applications ..... 90

    Typical Applications ..... 91

    The Technologies-Controls ..... 91

    The Technologies-Diagnostics ..... 92

Summary ..... 92

Literature Cited ..... 92

  

**CHAPTER 7: SCREW DESIGN ..... 93**

**Timothy W. Womer**

Introduction ..... 93

Definition and Nomenclature of the Single Screw ..... 94

Purpose of the Plasticating Screw or C.U.S.H. .... 95

Feed Section—Solids Conveying ..... 95

    "C"—"First You Must Feed the Polymer Consistently" Material Handling ..... 95

    Feed Section of the Screw ..... 95

    Groove Feedthroat Extruders ..... 97

Melting Section ..... 99

    "U"—"Next You Must Melt the Polymer Uniformly" Standard Single Channel Flighted Section ..... 99

    The Advanced Dual Channeled Barrier Screw ..... 100

Metering or Pumping Section .....101  
 "S"—"Then You Must Pump the Polymer Steadily" .....101  
 Mixing .....104  
 "H"—"Finally the Screw Must Mix the Polymer "Homogeneously" .....104  
 Conclusion to this Section .....106  
 Manufacturing of the Plasticating Screw .....106  
 Installation and Care of the Plasticating Screw .....107  
 Operating the Plasticating Screw .....107  
 Data Collection .....108  
 Conclusion .....109  
 Addendum .....110  
 Bibliography and Resources .....112

**CHAPTER 8: GEAR PUMPS, FILTRATION, STATIC MIXERS AND ADAPTERS .....115**

**Daniel J. Smith**

Gear Pumps .....115  
 Polymer Filtration .....118  
 Application Factors .....118  
 Filtration Alternatives .....120  
 Screen Changers .....120  
 Above Courtesy of ECON and Kreyneborg .....123  
 Large Area Filters .....123  
 Summary .....125  
 Static Mixers .....125  
 Adapters and Transfer Piping .....126  
 Adapter Piping Arrangements .....126  
 Residence Time and Pressure Drop Considerations .....127  
 Safety Considerations .....128  
 Heating and Temperature Control .....128  
 Bibliography .....128  
 Resources .....128

**CHAPTER 9: TROUBLESHOOTING THE EXTRUDER .....129**

**Andy Christie**

Introduction .....129  
 Coextrusion Film Systems .....129  
 Troubleshooting Method .....130

The Problem Statement	131
The Hypothesis	131
Test the Hypothesis	132
Evaluating the Results	132
Common Problems, Hypotheses and Tests	133
<b>CHAPTER 10: BLOWN FILM DIES</b>	<b>139</b>
<b>Bill Bode</b>	
Introduction and Function of the Die	139
Single-Layer Spiral Mandrel Die Components	139
Spiral Mandrel and Body	139
Die Lip Sets	142
Die Gaps	143
Mechanical Considerations	144
Stiffness of Components/Assembly/Disassembly	144
Additional Considerations	144
Materials of Construction and Surface Coatings	145
Materials	145
Platings/Surface Coatings	145
Corrosion	145
Cleaning	146
Coextrusion Dies	146
Description	146
Rheological (Flow) Considerations	146
Mechanical Considerations	149
Other Types of Film Dies	149
Spider Dies	149
Wrap-Around-Coat-Hanger Dies	150
Upper Die Geometry	150
Controls	150
<b>CHAPTER 11: STACK DIE TECHNOLOGY FOR TUBULAR FILM COEXTRUSION</b>	<b>151</b>
<b>John Perdikoulis</b>	
Introduction	151
Conventional Coextrusion Dies	151
Stacked Dies	153
References	159

<b>CHAPTER 12: BLOWN FILM MAINTENANCE AND TROUBLESHOOTING</b> .....	161
<b>Ron Roller and Dale A. Vedder</b>	
Introduction .....	161
Blown Film Process Basics .....	161
Main Arena of Action .....	161
Collapsing the Bubble .....	164
Rotation of the Die .....	164
Prevention Checklist .....	165
Resin, Additives, and Recycle .....	166
Extruder Drives .....	166
Extruder Heaters and Controls .....	166
Extruder Cooling .....	166
Rotator, Die and Air Ring .....	167
Tower and Line .....	167
Tools and Adjustments for the Operator .....	168
Die/Air Ring Setups and Adjustments .....	168
Adjustments .....	169
Maintaining and Improving Film Output .....	171
What is Satisfactory Output .....	171
Decreasing Scrap Production .....	172
Roll and Film Defects .....	173
How to Tackle Blocking .....	173
Tendency to Split .....	173
Printing Problems and Treat .....	174
Visible Roll Defects .....	174
Defects More Frequent on Large Lines .....	176
Gauge Variations .....	177
TD Gauge Bands .....	178
Bubble Trouble and Blemishes .....	180
Collapsing the Bubble .....	180
Handling the Web Through the Tower .....	181
Film Appearance .....	181
Causes of Roll Defects .....	182
<b>CHAPTER 13: BLOWN FILM COOLING SYSTEMS</b> .....	185
<b>Dr. Harinder Tamber</b>	
Introduction .....	185

Single-Orifice Air Rings .....186  
Dual-Orifice Air Rings .....187  
Modified Dual-Orifice Air Rings .....188  
Automatic Air Rings For Gauge Control .....189  
Internal Bubble Cooling (IBC) .....190  
Multiple Air Rings .....192  
High Cooling Rates .....192  
Cooling Rate Equations .....193  
Thermal Analysis of Blown Film Quenching .....196  
Thermal Load .....196  
Heat Removal .....198  
General Considerations for Blown Film System .....199  
Summary .....199  
Bibliography .....200

**CHAPTER 14: FILM STABILIZATION, FORMING AND COLLAPSING SYSTEMS .....201**

**James Stobie and Dr. Harinder Tamber**

Introduction .....201  
    Film Tube Handling and Containment Between the Air Ring and Frostline .....201  
    Iris .....202  
    Bubble Guides .....202  
    Bubble Cages .....202  
    Bubble Enclosures .....204  
    Bubble Stabilizers for High-Stalk Extrusion .....204  
Film Tube Collapsing .....205  
    Theory .....205  
    Collapsing Devices .....206  
    Wooden Slats .....206  
    Roller Collapsers .....206  
    Segmented Roller Collapsers .....207  
    Spreader Roller Concept in Bubble Collapsing .....208  
    Air Collapsing Surfaces .....209  
    Moving Collapsing Surfaces .....209  
    Collapser and Side Guide Adjustment .....209  
Bubble Collapsing Improvements .....210  
    Collapsing Problems .....210  
    Conventional Collapsing .....210

Tube Containment in High Cooling Applications .....	212
Tube Guides and Collapsing Frames .....	212
Iris, Air Rings and Collapsing Frames .....	212
Summary .....	212
Bibliography .....	212
<b>CHAPTER 15: CAST FILM DIE AND FEEDBLOCK DESIGN .....</b>	<b>215</b>
<b>Gary Oliver</b>	
Coextrusion Defined .....	215
Coextrusion Background .....	215
Coextrusion Equipment .....	215
Coextrusion Considerations .....	217
Feedblock Designs .....	220
Welex Polytrude .....	220
Dow Style Feedblock .....	221
Fixed Geometry Feedblock .....	221
Variable Geometry Feedblock .....	221
Cast Film Dies .....	221
Die Operation .....	224
References .....	225
<b>CHAPTER 16: CAST FILM PROCESS .....</b>	<b>227</b>
<b>Stephen J. Post</b>	
Abstract .....	227
Casting Methods .....	227
Solvent Casting .....	227
Water-Quench .....	228
Chill Roll .....	228
Casting Geometry .....	229
Internal Roll Design .....	229
External Roll Surface .....	230
Mechanical Design .....	230
Web Pinning Methods .....	230
Air Knife .....	231
Theory of Operation .....	231
Mechanical Design .....	232
Vacuum Box .....	232

Theory of Operation . . . . .	232
Mechanical Design . . . . .	233
Adjustability . . . . .	234
Cost . . . . .	235
Cast Roll Wear . . . . .	235
Remove Plate-Out . . . . .	235
Operation . . . . .	235
Air Chamber . . . . .	235
Theory of Operation . . . . .	235
Mechanical Design . . . . .	235
Electrostatic Wire . . . . .	236
Theory of Operation . . . . .	236
Mechanical Design . . . . .	236
Comparative Analysis . . . . .	237
Line Speed Stability . . . . .	237
Elimination of Film Defects . . . . .	237
Film Clarity . . . . .	238
Transverse Thickness Variation . . . . .	238
Edge Pinning Methods . . . . .	238
Air Jets . . . . .	238
Electrostatic Edge Pinners . . . . .	238
Conclusion . . . . .	239
Cast Film Trouble Shooting Guide . . . . .	239
<b>CHAPTER 17: SHEETING . . . . .</b>	<b>245</b>
<b>Doug Darrow</b>	
Introduction . . . . .	245
Considerations for Sheet Production . . . . .	245
Classification of Sheet . . . . .	247
Thickness . . . . .	247
Quality . . . . .	248
Thermoform . . . . .	248
Optical/Glazing . . . . .	248
<b>CHAPTER 18: COEXTRUSION . . . . .</b>	<b>249</b>
<b>Thomas I. Butler</b>	
Introduction . . . . .	249



Specific Performance Properties . . . . .	249
Reduced Cost . . . . .	249
Reduce Number of Processes . . . . .	249
Waste Source Reduction . . . . .	249
Equipment . . . . .	250
Blown Film Dies . . . . .	254
Cast Film Flat Dies (Slot Dies) . . . . .	255
Polymer Selection for Coextrusion . . . . .	257
Mechanical Properties . . . . .	258
Barrier Properties . . . . .	259
Sealability of Polymers . . . . .	262
Adhesive Polymers . . . . .	263
Factors Influencing Adhesion . . . . .	264
Operation Guidelines for Coextrusion . . . . .	266
Determination of Layer Thickness . . . . .	266
Layer Uniformity . . . . .	267
Melt Temperature Control . . . . .	269
Die Temperature . . . . .	270
Adhesion Strength Determinations . . . . .	270
Film Curling Problems . . . . .	271
Formulation Changes . . . . .	272
Shutdown of the Extrusion Equipment . . . . .	273
References . . . . .	273
<b>CHAPTER 19: GEL TROUBLESHOOTING . . . . .</b>	<b>275</b>
<b>Thomas I. Butler</b>	
Introduction . . . . .	275
Moments of a Distribution . . . . .	278
Gel Types . . . . .	280
Fiber/Contamination Gels . . . . .	280
Cross-Contamination Gels . . . . .	280
Unmixed/Non-Homogeneous Gels . . . . .	280
Degradation of Polymers . . . . .	281
Crosslinked Gels . . . . .	281
Oxidized Gels . . . . .	282
Identification of Type of Gel . . . . .	283
Degradation in Extruders . . . . .	283

Summary ..... 284  
References ..... 285  
Appendix ..... 285  
    Hot-Stage Microscopy Procedure ..... 285

**CHAPTER 20: SURFACE TREATMENT ..... 287**

**David A. Markgraf**

Abstract ..... 287  
Introduction: Necessity of Surface Treatment ..... 287  
    Methods of Improving Surface Tension ..... 287  
Flame Treatment ..... 288  
Plasma Treatment ..... 290  
Atmospheric Plasma Treatment (APT) Process ..... 291  
Measuring Surface Energy ..... 292  
Cotton Swab Method ..... 295  
Drawdown Test Method ..... 296  
Warnings and Cautions ..... 298  
Corona Treating ..... 298  
    What Is Corona Treating? ..... 298  
Types of Corona Treatment Systems ..... 300  
    Covered-Roll System ..... 300  
    Bare-Roll System ..... 301  
    Universal-Roll System ..... 303  
Power Supply for Corona Treating ..... 304  
Corona Treating Applications ..... 305  
Sizing: Material/Process Parameters ..... 306  
Conclusion ..... 309  
Literature Cited ..... 310  
Resources ..... 310

**CHAPTER 21: WINDING ..... 313**

**R. Duane Smith**

Introduction ..... 313  
Definition of a Quality Roll ..... 313  
How to Achieve and Measure Roll Hardness ..... 314  
Film Winding Principles ..... 315

Example of Determining Maximum Web Tension—Metric .....	316
Example of Determining Maximum Web Tension—English .....	317
Starting Point Tension Values .....	317
Laminated Structures .....	318
Film Winding Processes .....	318
Measuring Roll Hardness .....	323
Visual Roll Defects .....	324
Winder Components .....	325
The Slitting Operation .....	326
The Spreading Operation .....	327
Winder Drives and Tension Control Systems .....	332
Proper Shaft Selection .....	334
Automatic Roll Changing Systems .....	336
Summary .....	338
References .....	338
<b>CHAPTER 22: FILM TEST METHODS .....</b>	<b>339</b>
<b>David Timm</b>	
Introduction .....	339
Pre-Fabrication Testing .....	339
Film Production .....	339
Visual Properties .....	340
Physical Properties .....	341
Surface Properties .....	344
Barrier Properties .....	345
Summary .....	346
<b>CHAPTER 23: QUALITY SYSTEMS AND TECHNIQUES .....</b>	<b>347</b>
<b>Michael Holler</b>	
Introduction .....	347
Popular Tools Used In Proactive Quality Systems .....	351
Summary .....	360
Common ASTM Tests On Plastics and Film Structures .....	361
Works Cited .....	362
References .....	362

<b>CHAPTER 24: RESINS</b> .....	363
<b>Mark A. Spalding and Thomas I. Butler</b>	
Introduction .....	363
Solid Density and Crystallinity .....	365
Flow Indices .....	369
Molecular Weights and Gel Permeation Chromatography (GPC) .....	370
Physical Properties Related to Processing .....	371
Bulk Density .....	372
Coefficients of Dynamic Friction and Shear Stress at the Interface .....	373
Melting Flux .....	375
Melt Density .....	377
Heat Capacity and Thermal Conductivity .....	377
Resin Drying .....	379
Summary .....	379
References .....	379
<b>CHAPTER 25: POLYMER RHEOLOGY</b> .....	381
<b>Thomas I. Butler</b>	
Introduction .....	381
Rheological Considerations .....	382
Viscous Layer Rearrangement .....	387
Elastic Layer Rearrangement .....	389
Layer Interfacial Instability .....	389
Extensional Viscosity .....	393
Orientation .....	398
Summary .....	400
References .....	400
Appendix 1 .....	402
<b>CHAPTER 26: TIE LAYERS ADHESIVES</b> .....	403
<b>Dr. Stephen R. Tanny</b>	
Introduction .....	403
CXA Resin Selection .....	403
Why is a CXA Needed? .....	403
When is a CXA Resin Needed? .....	403
Selection of CXA Resins .....	404
Using CXA Resins .....	405
Type of Process .....	405

Processing Temperatures ..... 406

Drying CXA Resin ..... 406

Diluting CXA Resin ..... 407

Performance of CXA Resins ..... 408

    Peel Strength ..... 408

    Quality Control ..... 409

    Other Performance Considerations ..... 412

Summary ..... 412

**CHAPTER 27: LOW-DENSITY POLYETHYLENE ..... 413**

**Thomas I. Butler**

Introduction ..... 413

Polymer Characterization ..... 413

Typical Applications and End Uses ..... 417

Typical Polymer Properties ..... 417

General Processing Guidelines ..... 420

    Melt Temperature ..... 421

    BUR ..... 421

    Die Gap ..... 421

    Output ..... 421

    Frostline Height ..... 422

    The Effect of Modern Trends in Resin Blending—and/or Co-Extrusion ..... 424

Summary ..... 424

Bibliography ..... 425

**CHAPTER 28: LINEAR LOW-DENSITY POLYETHYLENE ..... 427**

**Thomas I. Butler**

Introduction ..... 427

Polymer Characterization ..... 427

Typical Applications and End Uses ..... 430

Typical Polymer Properties ..... 430

    Tensile Strength ..... 430

    Yield Strength ..... 430

    Dart Impact ..... 431

    Elmendorf Tear ..... 431

General Processing Guidelines ..... 431

Blends ..... 432

Melt Fracture . . . . . 434  
Blown Film vs. Cast Film . . . . . 435  
Summary . . . . . 435  
Bibliography . . . . . 435

**CHAPTER 29: ULTRA LOW-DENSITY POLYETHYLENE . . . . . 437**

**Thomas I. Butler**

Introduction . . . . . 437  
Polymer Characterization . . . . . 437  
Typical Applications and End Uses . . . . . 439  
Typical Polymer Properties . . . . . 439  
General Processing Guidelines . . . . . 441  
Summary . . . . . 441  
Bibliography . . . . . 441

**CHAPTER 30: HIGH MOLECULAR WEIGHT, HIGH-DENSITY POLYETHYLENE . . . . . 443**

**Jerry M. Johnson**

Introduction . . . . . 443  
Polymer Characterization . . . . . 443  
Typical Polymer Properties . . . . . 446  
    Biaxial Orientation . . . . . 446  
    Blowup Ratio and Neck Height . . . . . 447  
    General Processing Guidelines . . . . . 448  
    Extruder . . . . . 448  
    Blown Film Die . . . . . 449  
    Air Rings . . . . . 449  
    Collapsing Parameters . . . . . 449  
    Treating . . . . . 450  
Applications and End Uses . . . . . 450  
Summary . . . . . 451  
References . . . . . 451

**CHAPTER 31: METALLOCENE LINEAR LOW-DENSITY POLYETHYLENE . . . . . 453**

**Paul M. German**

Introduction . . . . . 453  
Polymer Characterization . . . . . 453  
Typical mLLDPE Applications and End Uses . . . . . 454  
Typical Polymer Properties . . . . . 455

Tensile Strength ..... 455

Yield Strength ..... 455

Dart Impact ..... 456

Elmendorf Tear ..... 456

Relaxation Time and Film Orientation ..... 456

General Processing Guidelines ..... 456

Blends ..... 457

Melt Fracture ..... 459

Blown Film vs. Cast Film ..... 461

Summary ..... 461

Bibliography ..... 461

**CHAPTER 32: POLYBUTYLENE ..... 463**

**Charles C. Hwo**

Introduction ..... 463

Polymer Characterization ..... 463

Typical Applications and End Uses ..... 463

Typical Polymer Properties ..... 464

General Processing Guidelines ..... 464

    Equipment Requirements ..... 464

Processing Conditions ..... 470

    Treating and Printing ..... 471

    Reprocessing ..... 471

    Testing ..... 471

    Additives ..... 471

    Converting ..... 471

    Sealing and Joining ..... 471

Summary ..... 472

Literature Cited ..... 472

**CHAPTER 33: POLYPROPYLENE ..... 473**

**Michael C. Chen**

Introduction ..... 473

Polymer Characterization ..... 473

Film Processing ..... 474

Film Properties ..... 475

Applications ..... 476  
Key Words ..... 477  
Resources ..... 477

**CHAPTER 34: ETHYLENE VINYL ACETATE (EVA) ..... 479**

**Todd Stevens**

Introduction ..... 479  
Polymer Characterization ..... 479  
Applications ..... 480  
General Processing Guidelines ..... 481

**CHAPTER 35: ETHYLENE METHYL ACRYLATE—EMA ..... 483**

**Brad Westbrook**

Introduction ..... 483  
Polymer Characterization ..... 483  
Typical Applications ..... 483  
Typical Polymer Properties ..... 483  
General Processing Guidelines ..... 485

**CHAPTER 36: ACID COPOLYMERS ..... 487**

**William J. Glick**

Introduction ..... 487  
Polymer Characterization ..... 487  
Typical Applications ..... 488  
Typical Polymer Properties ..... 488  
General Processing Guidelines ..... 489  
Summary ..... 489  
Bibliography ..... 490

**CHAPTER 37: IONOMER ..... 491**

**William J. Glick**

Introduction ..... 491  
Polymer Characterization ..... 491  
Typical Applications ..... 492  
Typical Polymer Properties ..... 492  
General Processing Guidelines ..... 493  
Summary ..... 493  
Bibliography ..... 494



<b>CHAPTER 38: NYLON RESINS</b> .....	495
<b>Mike Christ</b>	
Introduction .....	495
Chemistry and Properties of Nylon Resins .....	495
Film Processing of Nylon Resins .....	496
Pre-processing .....	496
Extrusion .....	498
Film Forming .....	499
Post-Treatment .....	500
Oriented Film .....	501
Multi-Layer Film .....	502
Properties of Nylon Film .....	503
Mechanical Properties .....	504
Optical Properties .....	504
Barrier Properties .....	504
Thermoformability .....	506
Properties of Oriented PA film .....	506
Nylon in Multi-Layer Film .....	506
Applications .....	507
Summary .....	508
References .....	508
<b>CHAPTER 39: EVOH</b> .....	509
<b>Mark Pucci</b>	
Introduction .....	509
Synthesis of EVOH Copolymers .....	509
General Properties of EVOH .....	510
Oxygen Barrier Properties of EVOH .....	512
Solvent Barrier Properties of EVOH .....	514
Processing of EVOH .....	515
Summary .....	516
<b>CHAPTER 40: POLYVINYLIDENE CHLORIDE (PVDC)</b> .....	517
<b>Dr. Kun Sup Hyun</b>	
Introduction .....	517
Characteristics .....	517
Processing .....	518
Resources .....	518

<b>CHAPTER 41: ACRYLONITRILE COPOLYMERS</b> .....	519
<b>Paul R. Lund and Robert C. Sentman</b>	
Introduction—Nitrile Resins .....	519
Chemistry and Properties .....	519
Processing .....	520
Applications .....	522
Typical Examples of their Usage are in Toothpaste Sachets, and Transdermal Patches .....	524
Summary .....	524
<b>CHAPTER 42: POLYESTER</b> .....	525
<b>Jose M. Torradas</b>	
Introduction .....	525
Scope .....	525
History .....	525
Applications .....	525
Chemistry .....	526
Versatility .....	526
Rheology .....	527
Toughening .....	527
Physical State .....	527
Properties of Polyester Films .....	527
Oxygen and Water Barrier .....	527
Flavor, Odor, and Solvent Barrier .....	527
Non-Scalping and Non-Imparting Packaging Barrier .....	528
Mechanical Properties .....	528
Optical Properties .....	528
Thermal Characteristics .....	529
General Processing .....	529
Drying .....	529
Melt Temperatures .....	529
Screw Design .....	530
Heat Sensitivity/Thermal Degradation .....	530
Film Cooling .....	530
Wind Up .....	530
Specific Film Processes .....	530
Blown Monolayer .....	530
Blown Monolayer Reheat Stretch .....	530

Cast Monolayer . . . . .	.530
Coextrusion—Blown or Cast . . . . .	.531
Secondary Operations . . . . .	.531
Summary . . . . .	.531
Bibliography . . . . .	.531
<b>CHAPTER 43: POLYSTYRENE . . . . .</b>	<b>.533</b>
<b>Phil Wagner</b>	
Applications . . . . .	.534
Fabrication . . . . .	.535
Bibliography . . . . .	.537
<b>CHAPTER 44: POLYMER PROCESSING ADDITIVES (PPA) . . . . .</b>	<b>.539</b>
<b>Claude Lavallée and Maria P. Dillon</b>	
Introduction . . . . .	.539
Description of Polymer Processing Additive Technologies . . . . .	.539
Benefits of Using a PPA . . . . .	.540
Mechanism of Processing Additive . . . . .	.542
Interactions . . . . .	.544
Main Interacting Additives Classes . . . . .	.544
Interactions Management . . . . .	.545
Evaluation . . . . .	.546
References . . . . .	.546
<b>CHAPTER 45: ADDITIVES FOR FILM PRODUCTS . . . . .</b>	<b>.547</b>
<b>R.E. King III</b>	
Introduction . . . . .	.547
Acid Scavengers . . . . .	.548
Adhesion Promoters . . . . .	.548
Anti-block Agents . . . . .	.549
Antifogging Agents . . . . .	.549
Anti Gas Fading (for Color Critical Applications) . . . . .	.550
Antioxidants (for Long Term Thermal Stability) . . . . .	.551
Polymer Auto-Oxidation . . . . .	.551
Polymer Stabilization . . . . .	.552
Chain Breaking or Primary Antioxidants . . . . .	.552
Antistatic Agents . . . . .	.553
Biocides . . . . .	.554

Cling Agents	.555
Colorants	.555
Degradation Accelerators	.557
Fillers	.557
Flame Retardants	.558
Melt Processing Stabilizers	.558
Metal Deactivators	.559
Polymer Processing Aids	.560
Slip Additives	.561
Ultraviolet Stabilizers	.561
UV Absorbers	.562
Energy Quenchers	.562
Additive Delivery	.564
Synergistic and Antagonistic Mixtures of Additives	.565
Additive Synergy	.565
Additive Antagonism	.565
Ancillary Properties	.566
Volatility	.566
Compatibility	.566
Color Stability	.566
Physical Form	.566
Taste and Odor	.567
Regulatory Issues	.567
Performance vs. Cost	.567
Performance Testing	.567
Coextrusion and It's Affect on Additive Use	.568
Summary	.568
Bibliography	.568
<b>CHAPTER 46: SLIP AGENTS</b>	.569
<b>Adam J. Maltby and Richard E. Marquis</b>	
Introduction	.569
Types of Fatty Acid Amide Slip Agents	.569
Raw Material Source	.569
Manufacture	.570
How Amides Function in Polymers	.570
Measurement of Friction	.571

How Amides are Added to the Polymer . . . . .	572
Direct Addition . . . . .	572
Liquid Dispersion . . . . .	572
Preblend . . . . .	572
Masterbatch . . . . .	572
Examples in Polymers (In the following examples CoF = kinetic Coefficient of Friction) . . . . .	572
Gage Effects . . . . .	574
Time Effects . . . . .	574
Polymer Effects . . . . .	574
Coextrusion and Slip Agents ( COF) . . . . .	576
Summary . . . . .	576
Bibliography . . . . .	576
<b>Appendix 1: Film Extrusion Patent Survey . . . . .</b>	<b>577</b>
<b>George E. Ealer and Robert B. Gregory</b>	
Patents Reveal Developments of Film Technology . . . . .	577
Cast Film . . . . .	578
Blown Film . . . . .	578
Coextrusion . . . . .	580
The LLDPE Era: 1977 to the Present—An Addendum . . . . .	581
Summary . . . . .	588
Resources . . . . .	588
Acknowledgements . . . . .	588
<b>APPENDIX 2: GLOSSARY OF FILM TERMS . . . . .</b>	<b>589</b>
<b>Earl Herriman and Scott Marks</b>	



â€ film for industrial packaging â€ thermoshrinkable film â€ cover and protective film â€ embossed film â€ film for lamination. â€ shopper bags: patch handle, flexi loop handle, T shirt bag â€ safety bags â€ bags for industrial packaging â€ bio degradable bags: oxo and compostable â€ recycled plastic materials in pellets form. RECYCLING. â€ Technological film waste â€ Lumps â€ Packaging waste from. our clients â€ Used solvent distillation. Extrusion process.Â Coextrusion is the extrusion of multiple layers of material simultaneously. Free download film extrusion manual online Files at Software Informer. The Blown Film Extrusion Simulator enhances the learning process. This software was developed to teach blown film extrusion equipment operation and processing principles.Â The Blown Film Extrusion Simulator 1.0. A tool designed to teach blown film extrusion equipment operation. The Blown Film Extrusion Simulator enhances teach blown film extrusion equipment operation. 1 user rating. Download.