

CONTENTS

Foreword	5
Introduction	6
Part I. Compression Molding	7
1. Basic Principles of Compression Molding	7
2. Molding Materials	7
3. Outline of Molding Techniques	8
3.1 Molding Cyclic	8
3.2 Molding Temperature and Curing Time	9
3.3 New Techniques	10
3.4 Finishing of Molded Products	11
4. Plant Lay-out	11
4.1 Ground and Building	11
4.2 Employee Set-up	11
4.3 Production Facilities	12
4.4 Production Rate	14
5. Guide to Improvement	14
Part II. Injection Molding	17
1. Basic Principle of Injection Molding	17
2. Molding Materials	17
3. Outline of Molding Techniques	17
3.1 Molding Cyclic	17
3.2 Cylinder Temperature	20
3.3 Mold Temperature	20
3.4 Gate System and Finishing	20
3.5 Pre-drying of Molding Materials	21
3.6 Coloring of Molding Materials	21
3.7 Re-use of Scrap	22
3.8 Screw Plastification	22
4. Plant Lay-out	25
4.1 Ground and Building	25
4.2 Employee Set-up	25
4.3 production Facilities	25
4.4 Production Rate	26
5. Guide to Improvement	27
Conclusion	28
Reference Material	28
Directory	29