# Table of Contents

**About Us**
- The American Chemistry Council 5
- The Plastics Division of the ACC 6
- The Plastics Industry Producers’ Statistics Group 7
- ACC’s Resin Report Subscriptions 8

**2019 Situation and Trends**
- The Economic Environment 9
- Trends in Customer Industries 10
- Advantage USA: Plastics and Shale Gas 13

**Industry Summary Statistics**
- Trend of Sales and Captive Use of Major Plastic Resins Graph, 2014-2019 15
- Total U.S. Production and Sales & Captive Use, 1973-2019 16
- 2019 Percentage Distribution of Plastic Resins Sales & Captive Use by Material Graph 17
- Total Production and Sales & Captive Use by Resin, 2010-2019 18

**2019 Statistics By Resin and By Markets**
- Thermoset Resins 21
- Thermoplastic Resins 27
- Thermoplastic Domestic Sales and Use by Process Grade 42
- 2019 Percentage Distribution of Thermoplastic Resin by Major Market 42
- Thermoplastic Resin Sales by Major Market, 2015-2019 46
- 2019 Distribution of Plastic Resins Sales & Captive Use 47

**Plastics: Polymer History, Chemistry and Applications**
- History of Plastics 49
- The Basics of Polymer Chemistry 53
- How Plastics Are Made 56
- Monomer Flow Charts (ethylene, propylene, benzene, methanol) 60
- Plastics In A Circular Economy 64
- Plastic Packaging Identification Codes 65
- The How2Recycle™ Label 68
- The Plastics Recycling Terms & Tools 68

**Glossary of Terms**
- Glossary 69
- Abbreviations and Acronyms 74

**Additional Sources of Information**
- ACC’s Economics & Statistics Publications 75
- Trade Associations and Professional Organizations 76
- Industry Consultants and Publishers 77
- Government Publications 78
- Trade Publications 78

**Index** 79