

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

2018 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, 2013-2018	15
Total U.S. Production and Sales & Captive Use, 1973-2018	16
2017 Percentage Distribution of Plastic Resins Sales & Captive Use by Material Graph	17
Total Production and Sales & Captive Use by Resin, 2009-2018	18

2018 Statistics By Resin and By Markets

Thermoset Resins	21
Thermoplastic Resins	27
Thermoplastic Domestic Sales and Use by Process Grade	42
2018 Percentage Distribution of Thermoplastic Resin by Major Market	42
Thermoplastic Resin Sales by Major Market, 2014-2018	46
2018 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