

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

2016 Situation and Outlook

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, 2011-2016	15
Total U.S. Production and Sales & Captive Use, 1973-2016	16
2016 Percentage Distribution of Plastic Resins Sales & Captive Use by Material Graph	17
Total Production and Sales & Captive Use by Resin, 2007-2016	18

2016 Statistics By Resin and By Markets

Thermoset Resins	21
Thermoplastic Resins	27
Thermoplastic Domestic Sales and Use by Process Grade	40
2016 Percentage Distribution of Thermoplastic Resin by Major Market	43
Thermoplastic Resin Sales by Major Market, 2012-2016	44
2016 Distribution of Plastic Resins Sales & Captive Use	45

Plastics: Polymer History, Chemistry and Applications

History of Plastics	47
The Basics of Polymer Chemistry	51
How Plastics Are Made	54
Monomer Flow Charts (ethylene, propylene, benzene, methanol)	58
Resin Pellet Life Cycle	62
Plastic Packaging Identification Codes	63
The How2Recycle™ Label	66
The Plastics Recycling Terms & Tools	66

Glossary of Terms

Abbreviations and Acronyms	72
----------------------------	----

Additional Sources of Information

ACC's Economics & Statistics Publications	73
Trade Associations and Professional Organizations	74
Industry Consultants and Publishers	75
Government Publications	76
Trade Publications	76

Index

77

