

Polybutylene Terephthalate (PBT) Resins

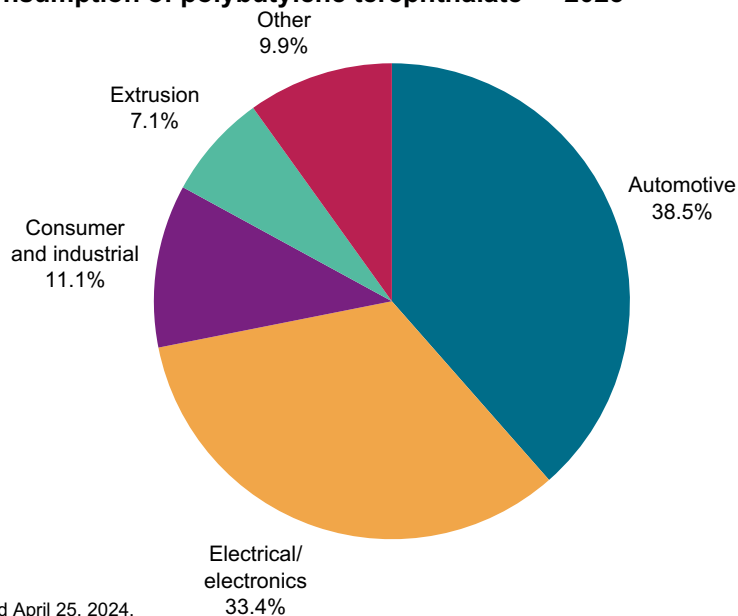
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Abstract

Polybutylene terephthalate (PBT) resins are high-performance, high-molecular-weight materials that can be converted into functional components and parts that are in turn used in a diverse array of assemblies for automotive, electrical/electronics, appliance and industrial equipment applications. PBT offers a perfect combination of high strength, light weight and superior electrical properties, making it an attractive replacement for metals in engineering applications. is a linear condensation polymer based on dimethyl terephthalate (DMT) or terephthalic acid (TPA), and 1,4-butanediol.

The following pie chart shows world consumption of polybutylene terephthalate:

World consumption of polybutylene terephthalate — 2023



Data compiled April 25, 2024.

Source: Chemical Market Analytics by OPIS.

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The largest application for PBT is automotive uses. The combination of high mechanical and electrical properties, good thermal stability and superior chemical resistance creates many automotive application opportunities for both PBT and PBT alloys. Overall use of PBT in automotive applications has increased as a result of greater use of electrical/electronics devices such as housings for electric motors for window and seating adjusters, as well as passenger airbags, safety belt tensioners and others. Newer PBT grades with improved hydrolytic stability are being used in under-the-hood parts such as plugs, connectors and housing parts that must withstand the increasingly stressful demands of the automotive industry.

Electrical/electronics is the next-largest sector for PBT consumption. The largest single use for PBT in the electrical/electronics market is for connectors, where their dielectric and arc resistance properties, insulation characteristics, strength, chemical and heat resistance, and dimensional stability are valued.

For more detailed information, see the table of contents, shown below.

S&P Global's Chemical Economics Handbook – Polybutylene Terephthalate (PBT) Resins is the comprehensive and trusted guide for anyone seeking information on this industry. This latest report details global and regional information, including



Global summary;
regional coverage



Producers with
annual capacities
and plant sites



Production figures
and trends



Consumption and
forecasts by end use
application



Manufacturing
processes and
environmental issues



Trade – imports
and exports

Key benefits

S&P Global's Chemical Economics Handbook – Polybutylene Terephthalate (PBT) Resins has been compiled using primary interviews with key suppliers and organizations, and leading representatives from the industry in combination with S&P Global's unparalleled access to upstream and downstream market intelligence and expert insights into industry dynamics, trade and economics.

This report can help you

- Identify trends and driving forces influencing chemical markets
- Forecast and plan for future demand
- Understand the impact of competing materials
- Identify and evaluate potential customers and competitors
- Evaluate producers
- Track changing prices and trade movements
- Analyze the impact of feedstocks, regulations and other factors on chemical profitability

Table of contents

Executive summary	6
Summary	7
Introduction	10
Manufacturing processes	12
Supply and demand by region	14
World	14
Producing companies	14
Salient statistics	16
Consumption	17
Automotive	19
Chassis	21
Under the hood	21
Body	22
Electrical and electronics	22
Alloys/blends	23
Other	24
Trade	25
North America	28
Overview	28
Capacity	28
Salient statistics	28
Consumption	29
Trade	30
United States	31
Producing companies	31
Salient statistics	32
Consumption	32
Trade	34
Canada	35
Producing companies	35
Salient statistics	35
Consumption	36
Trade	37
Mexico	38
Producing companies	38
Salient statistics	38
Consumption	39
Trade	41
Central and South America	42
Producing companies	42
Salient statistics	42
Consumption	42

Trade	44
Western Europe	44
Producing companies	44
Resin producers	44
Compounders	45
Salient statistics	46
Consumption	46
Trade	49
Central and Eastern Europe	49
Producing companies	49
Salient statistics	50
Consumption	50
Trade	52
CIS and Baltic States	52
Producing companies	52
Salient statistics	52
Consumption	53
Trade	54
Middle East and Africa	54
Producing companies	54
Salient statistics	55
Consumption	56
Trade	58
Indian Subcontinent	58
Producing companies	58
Salient statistics	59
Consumption	59
Trade	61
Northeast Asia	62
Overview	62
Capacity	62
Salient statistics	63
Consumption	63
Trade	65
Mainland China	66
Producing companies	66
Salient statistics	68
Consumption	69
Trade	70
Japan	71
Producing companies	71
Salient statistics	72
Consumption	72
Trade	74
South Korea	75
Producing companies	75
Salient statistics	75

Consumption	76
Trade	78
Taiwan	79
Producing companies	79
Salient statistics	79
Consumption	80
Trade	82
Southeast Asia	83
Producing companies	83
Salient statistics	83
Consumption	84
Trade	85
Appendix — Cyclic oligomers of PBT	87
Additional resources	88
Revisions	89
Data Workbook	90

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