

1,4-Butanediol (BDO), Polytetramethylene Ether Glycol (PTMEG) and Spandex Market Report and Forecast 2025-2034

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Report description:

The global 1,4-butanediol (BDO), polytetramethylene ether glycol (PTMEG) and spandex market stood at a value of around USD 19.72 Billion in 2024. The market is further expected to grow in the forecast period of 2025-2034 at a CAGR of 7.00%, to reach USD 38.79 Billion by 2034.

The global 1,4-butanediol (BDO), polytetramethylene ether glycol (PTMEG) and spandex industry is being driven by the products' increasing demand in the production of elastic fibres such as spandex (elastane), required for stretchable fabrics, and for polyurethane resins. PTMEG is used to produce polyurethanes of high quality with enhanced features such as hydrolysis and microbes, excellent performance at low temperatures, and high resistance to abrasion and physical wear. To produce PTMEG, the drug formulations with 1, 4-butanediol (BDO) is increasingly being used and adopted. With the implementation of many legislative policies and actions concerning the safe execution of BDO, the demand for the product is steadily increasing.

1,4-Butanediol (BDO), Polytetramethylene Ether Glycol (PTMEG) and Spandex: Market Segmentation

Polytetramethylene ether glycol (PTMEG) or polytetramethylene oxide (PTMO) is a linear polymer derived via acid-catalysed polymerisation of tetrahydrofuran (THF). It is primarily used to make elastomeric polyurethane fibres such as spandex. PTMEG can be considered a polymer of tetrahydrofuran, or a polyether derived from 1,4-butanediol as THF is produced via the acid-catalysed dehydration of 1,4-butanediol (BDO), which is one of the most widely used industrial process for THF's production. The global 1,4-butanediol (BDO), polytetramethylene ether glycol (PTMEG), and spandex industry can be segmented into product type and region.

Based on its product type, the global 1,4-butanediol (BDO), polytetramethylene ether glycol (PTMEG) and spandex market is segmented into:

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- BDO
- PTMEG
- Spandex

Looks into the regional markets of 1,4-butanediol (BDO), polytetramethylene ether glycol (PTMEG) and spandex like:

- North America
- Europe
- Asia Pacific
- Latin America
- Middle East and Africa

Market Analysis

Increasing sports activities and the rising awareness regarding fitness and healthy lifestyles are expected to drive the growth of the global 1,4-butanediol (BDO), polytetramethylene ether glycol (PTMEG) and spandex industry. Due to the growing population in the Asia Pacific, the region is expected to emerge as a significant market for the product, further enhancing the overall development of 1,4-butanediol (BDO), polytetramethylene ether glycol (PTMEG) and spandex industry. Further, the industry is also supported by the increased demand for sustainable and bio-based feedstocks, thriving textile and apparel industry, rising disposable income, and growing end-use sectors for the products.

Key Industry Players in the Global 1,4-Butanediol (BDO), Polytetramethylene Ether Glycol (PTMEG) and Spandex Market

The report gives a detailed analysis of the following key players in the global market for 1,4-butanediol (BDO), polytetramethylene ether glycol (PTMEG) and spandex, covering their competitive landscape, capacity, and latest developments like mergers, acquisitions, and investments, expansions of capacity, and plant turnarounds:

- Mitsui Chemicals, Inc.
- BASF SE
- Saudi International Petrochemical Company
- DuPont de Nemours, Inc. (NYSE: DD)
- Ashland Global Specialty Chemicals Inc.
- LyondellBasell Industries N.V.
- BioAmber Inc.
- Saudi International Petrochemical Company
- Others

The comprehensive EMR report provides an in-depth assessment of the market based on the Porter's five forces model along with giving a SWOT analysis.

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