Polytetramethylene ether glycol (PTMEG), also known as polytetrahydrofuran, polytetramethylene ether glycol, tetrahydrofuran homopolyether, etc. Its English name is Polytetramethylene Ether Glycol, abbreviated as PTMEG. Its molecular formula is \( \text{HO}[\text{CH}_2\text{CH}_2\text{CH}_2\text{CH}_2\text{O}]_n\text{H} \), which is a homopolymer obtained by cationic ring-opening polymerization of tetrahydrofuran (THF) in the presence of a catalyst. It is a primary hydroxyl end linear polyether diol at room temperature. The next is a white waxy solid that melts into a clear, colorless liquid when the temperature exceeds room temperature, and is easily soluble in alcohols, esters, ketones, aromatics, and chlorinated hydrocarbons, insoluble in ester-like hydrocarbons and water.

BDO is a chemical production project, called 1,4 butanediol, colorless oil, non-volatile, condensation below 25 °C. Spandex is an abbreviation of polyurethane fiber and is an elastic fiber. Spandex generally consists of multiple filaments, usually 10D/root, which is currently 15D/root, or even 20D/root. The smaller the theoretical number is, the better the evenness of the strip is, and the less the chance rate of overlap, the less dry it is.

The market is likely to be driven by increasing butanediol demand from cosmetics, medicines, textiles, engineering plastics and automotive applications. About 50% BDO is used in tetrahydrofuran (THF) production, which is an intermediate chemical for polytetramethylene ether glycol (PTMEG). PTMEG itself is further processed to manufacture spandex/elastane/lycra, which finds application in several end-use industries that include textiles and automotive interiors. Asia Pacific dominated the global scenario as the largest consumer base and revenue generating region and is expected to witness the fastest growth over the forecast period. India and China are projected to account for the major market share in the region primarily due to rising industrial application, economic developments and technology adoption for various industrial operations.

The global BDO-PTMEG-Spandex market was valued at 4200 million US$ in 2018 and will reach 5910 million US$ by the end of 2025, growing at a CAGR of 5.0% during 2019-2025.

This report focuses on BDO-PTMEG-Spandex volume and value at global level, regional level and company level. From a global perspective, this report represents overall BDO-PTMEG-Spandex market size by analyzing historical data and future prospect. Regionally, this report categorizes the production, apparent consumption, export and import of BDO-PTMEG-Spandex in North America, Europe, China, Japan, Southeast Asia and India.

For each manufacturer covered, this report analyzes their BDO-PTMEG-Spandex manufacturing sites, capacity, production, ex-factory price, revenue and market share in global market.

The following manufacturers are covered:
- Dairen Chemicals
- Shanxi Sanwei Group
- Ashland BASF
- LyondellBasell
- DuPont
- Invista

Segment by Regions
- North America
- Europe
- China
- Japan
- Southeast Asia
- India

Segment by Type
- Polyurethane
- GBL
- polybutylene terephthalate
- tetrahydrofuran
- solvents

Segment by Application
- Automotive
- Hygiene
- Textiles

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