

Global PPS and PEEK Plastic CMP Rings Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global PPS and PEEK Plastic CMP Rings market size was valued at US\$ 155 million in 2025 and is forecast to a readjusted size of US\$ 242 million by 2032 with a CAGR of 6.7% during review period.

In 2024, global PPS and PEEK Plastic CMP Rings production reached 708.89 k units , with an average global market price of around US\$ 197.3 per unit. For the polishing process, there are two kinds of retainer rings, one is a metal retainer ring, the other is a plastic retainer ring. However, metal retainer rings have a short life span due to the high friction coefficient and easy-scratched surface compared with plastic ones. Besides, metal rings can also lead to severe particle generation which will cause lower wafer quality. Therefore, more and more manufacturers have switched from metal to plastic rings (e.g., PPS or PEEK). And usually, the PEEK large tubes are mostly used in the process due to the easy machining. Nowadays, the most polishing slurry is abrasive-free, however, the abrasive still exists in some applications and will cause severe damage to the plastic material.

PPS and PEEK are two of the most common materials used in CMP retainer rings. Both have excellent physical properties such as chemical resistance, high-temperature resistance, low coefficient of friction, high hardness, and low water absorption. However, they also differ significantly in their mechanical properties. PPS, PEEK is the most commonly used material for CMP retainer rings. If you are concerned about the cost, then PPS is another option.

The PPS and PEEK Plastic CMP Rings are an essential precision component in the wafer polishing process, used to secure the wafer, ensure uniform polishing, and reduce

defects. Upstream raw materials mainly rely on high-performance polymers and engineering plastics, such as PFA and PEEK supplied by Mitsubishi Chemical, Ensinger, and Victrex, which are resistant to high temperatures and chemical corrosion. Midstream manufacturers process these materials into high-precision retainer rings and supply them to wafer fabs such as TSMC, Samsung, and Intel. As semiconductor processes advance to 3nm and beyond, the requirements for polishing uniformity and wafer surface defect control continue to increase, driving retainer rings from standardized products to high-performance, customized designs, with some manufacturers collaborating closely with wafer fabs to develop specialized materials and designs.

Industry trends are mainly focused on material upgrades, precision customization, and extending service life to reduce particle contamination and chemical reaction side effects. CMP retainer ring production relies on high-precision CNC machining and polishing equipment, with the annual output per production line typically ranging from 20,000 to over 100,000 rings, and the industry concentrated among a few manufacturers with advanced precision capabilities. Gross margins typically range from 28% to 40%, with high-end customized products reaching 40% to 50%. Costs are primarily composed of 70% raw materials, 15% labor, and 15% manufacturing overhead. Downstream demand comes mainly from wafer foundries and IDM companies, with retainer ring consumption directly linked to wafer capacity and process nodes; approximately one retainer ring is consumed for every 400 wafers processed. Orders are generally stable but are noticeably affected by fluctuations in wafer production capacity.

This report is a detailed and comprehensive analysis for global PPS and PEEK Plastic CMP Rings market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global PPS and PEEK Plastic CMP Rings market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global PPS and PEEK Plastic CMP Rings market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global PPS and PEEK Plastic CMP Rings market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global PPS and PEEK Plastic CMP Rings market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for PPS and PEEK Plastic CMP Rings

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global PPS and PEEK Plastic CMP Rings market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Willbe S&T, Cnus, CALITECH, Duratek, EPK, UIS Technologies, IST, Semplastics, AKT Components, PTC, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

PPS and PEEK Plastic CMP Rings market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and

forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Polyetheretherketone (PEEK) CMP Rings

Polyphenylene Sulfide (PPS) CMP Rings

Market segment by Application

300 mm Wafer

200 mm Wafer

Others

Major players covered

Willbe S&T

Cnus

CALITECH

Duratek

EPK

UIS Technologies

IST

Semplastics

AKT Components

PTC

Ensinger

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe PPS and PEEK Plastic CMP Rings product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of PPS and PEEK Plastic CMP Rings, with price, sales quantity, revenue, and global market share of PPS and PEEK Plastic CMP Rings from 2021 to 2026.

Chapter 3, the PPS and PEEK Plastic CMP Rings competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the PPS and PEEK Plastic CMP Rings breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and PPS and PEEK Plastic CMP Rings market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of PPS and PEEK Plastic CMP Rings.

Chapter 14 and 15, to describe PPS and PEEK Plastic CMP Rings sales channel, distributors, customers, research findings and conclusion.

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