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Global Ultra Soft Thermal Pad Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Ultra Soft Thermal Pad market size is expected to reach $ 1652 million by 2032, rising at a market growth of 6.5% CAGR during the forecast period (2026-2032).

Ultra soft thermal pad is a type of flexible thermal interface material that guides thermal pads with low hardness, low modulus, low compression force, and high adhesion. It is usually made of silicone, silicone free acrylic, polyurethane, or special resin as the matrix, filled with thermal fillers such as alumina, boron nitride, aluminum nitride, graphite, carbon fiber, etc. Its main function is to fill height tolerances and air gaps between chips, optical modules, power devices, inductors, capacitors, battery management systems, heat sinks, metal shells, and cold plates, reduce interface thermal resistance, improve heat dissipation efficiency, and reduce mechanical stress on fragile devices, thin devices, and precision optoelectronic components due to assembly pressure. Compared to ordinary thermal conductive silicone pads, ultra soft thermal conductive pads emphasize soft compression, low stress adhesion, large tolerance absorption, and complex surface adaptability. They are widely used in 5G communication equipment, optical modules, AI servers, automotive electronics, consumer electronics, power modules, sensors, camera modules, and highly reliable precision electronic devices. In 2025, global Ultra Soft Thermal Pad production reached approximately 30.65 M Sq m, with an average global market price of around US$ 33.52 per Sq m.

When a humanoid robot shuttles around the factory floor with precise steps, or flexibly completes home services, its joint motors are undergoing an 'invisible test' - in a small space with a diameter of less than 80mm, it must stably output more than 300Nm of torque, and the high temperature generated by the electromagnetic load may cause performance degradation at any time. As the 'power core' of the robot, the heat

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dissipation efficiency of the motor coil directly determines the movement accuracy and service life. The emergence of ultra-soft thermal pads provides an efficient solution to the pain points of this industry.

Ultra soft thermal pad are a fast growing segment of heat conduction pads with high added value. The demand side mainly comes from the fields of communication equipment and optical modules, automotive electronics, servers and data centers, consumer electronics, power electronics and optical sensors, among which optical modules, 5G RF devices, AI server GPU modules, on-board electronic control units, ADAS, BMS and camera modules continue to improve their requirements for low compression stress, high fit, low thermal resistance and long-term reliability, promoting the replacement of some ordinary heat conduction pads and heat conduction gel with ultra soft heat conduction pads. In terms of product structure, silicone based ultra soft thermal pads are still the mainstream, with good flexibility, temperature resistance, and processing adaptability; Silicon free ultra soft thermal pads, acrylic based ultra soft thermal pads, and polyurethane based ultra soft thermal pads are mainly aimed at optical, hard disk, sensor, and silicon pollution sensitive scenarios; The unit price of high thermal conductivity and ultra soft thermal conductivity pads is relatively high, mainly used for servers, power semiconductors, vehicle electronic control, and high heat flux density equipment. The future market opportunities will mainly focus on high thermal conductivity and low hardness products, silicon free ultra soft thermal pads, automotive grade low stress thermal pads, ultra soft thermal pads for AI servers, low pollution thermal pads for optical modules, automated mounting coils, and low thermal resistance thermal interface materials that are compatible with liquid cooling plates, homogenization plates, and high-power packaging.

This report studies the global Ultra Soft Thermal Pad production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Ultra Soft Thermal Pad and provides market size (US$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Ultra Soft Thermal Pad that contribute to its increasing demand across many markets.

Highlights and key features of the study
Global Ultra Soft Thermal Pad total production and demand, 2021-2032, (K Sqm)
Global Ultra Soft Thermal Pad total production value, 2021-2032, (USD Million)
Global Ultra Soft Thermal Pad production by region & country, production, value,

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CAGR, 2021-2032, (USD Million) & (K Sqm), (based on production site)
Global Ultra Soft Thermal Pad consumption by region & country, CAGR, 2021-2032 & (K Sqm)
U.S. VS China: Ultra Soft Thermal Pad domestic production, consumption, key domestic manufacturers and share
Global Ultra Soft Thermal Pad production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Sqm)
Global Ultra Soft Thermal Pad production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Sqm)
Global Ultra Soft Thermal Pad production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Sqm)

This report profiles key players in the global Ultra Soft Thermal Pad market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Henkel Corporation, Qnity Electronics, Parker Hannifin, 3M, Fujipoly, Shin Etsu Chemical, Momentive, Dow, Kitagawa Industries, Kerafol Keramische Folien, etc.

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

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Ultra Soft Thermal Pad market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US$ Millions), volume (production, consumption) & (K Sqm) and average price (US$/Sq m) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Ultra Soft Thermal Pad Market, By Region:

United States

China

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Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Ultra Soft Thermal Pad Market, Segmentation by Type:

Silicone Ultra Soft Thermal Pad

Silicon Free Ultra Soft Thermal Pad

Global Ultra Soft Thermal Pad Market, Segmentation by Thermal Conductivity:

Thermal Conductivity10w/M?K

Global Ultra Soft Thermal Pad Market, Segmentation by Thickness:

Thickness

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