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Global Passive Radiative Cooling Film Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Passive Radiative Cooling Film market size is expected to reach $ 70.58 million by 2032, rising at a market growth of 24.2% CAGR during the forecast period (2026-2032).
Passive Radiative Cooling Film is an advanced material capable of achieving efficient heat dissipation without external energy input. Its working principle relies on two key characteristics: first, emitting heat directly into outer space as infrared radiation through the atmospheric window (8?13 micrometre wavelength range); second, highly reflecting sunlight (particularly visible and near-infrared wavelengths) to minimize solar absorption. Typically structured with a multi-layered design, it incorporates materials with high infrared emissivity (e.g., polymers or metal oxides) and solar-reflective layers, enabling continuous operation day and night. Applications span building energy efficiency (e.g., reducing air conditioning loads), electronics thermal management, and solar panel cooling, offering environmental benefits, low energy consumption, and sustainability.
Major global players in passive radiative cooling films include SPACE COOL, Azure Era, MG Energy, i2Cool, Radi-Cool, 3M and SVG Optoelectronics. It is projected that by 2024, the top five manufacturers will hold approximately 87.28% of the global market share (by revenue).
Currently, the passive radiative cooling film market is dominated by China, with Chinese companies primarily collaborating with the government on large-scale projects such as grain silo renovations and airport upgrades. In contrast, while North American companies have made some progress in early R&D, they mainly focus on commercial and industrial applications. However, demand in these areas remains relatively low because lower-priced traditional reflective films are generally considered a more cost-effective alternative.
Furthermore, most customers in the industry prefer passive radiative cooling coatings to

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films. Coated products are significantly more cost-effective, with the additional cost per square meter not much higher than traditional coatings, making them the preferred choice for most commercial applications. However, the insulation performance of coatings largely depends on the coating technology, while films, although more expensive, offer more stable performance. Some companies are actively expanding into consumer electronics applications; for example, the Chinese company MG Energy has partnered with several leading Chinese mobile phone brands, integrating its products into mobile phones and other electronic devices, and has thus secured a large number of orders.

Leading companies in the industry have indicated plans to actively expand into high-temperature markets such as the Middle East and Southeast Asia, anticipating significant demand growth in these regions over the next few years.

This report studies the global Passive Radiative Cooling Film production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Passive Radiative Cooling Film 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 Passive Radiative Cooling Film that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Passive Radiative Cooling Film total production and demand, 2021-2032, (Sq m)

Global Passive Radiative Cooling Film total production value, 2021-2032, (USD Million)

Global Passive Radiative Cooling Film production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Sq m), (based on production site)

Global Passive Radiative Cooling Film consumption by region & country, CAGR, 2021-2032 & (Sq m)

U.S. VS China: Passive Radiative Cooling Film domestic production, consumption, key domestic manufacturers and share

Global Passive Radiative Cooling Film production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Sq m)

Global Passive Radiative Cooling Film production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Sq m)

Global Passive Radiative Cooling Film production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Sq m)

This report profiles key players in the global Passive Radiative Cooling Film 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 SPACE COOL, Azure Era, MG Energy, i2Cool, Radi-Cool, 3M, SVG Optoelectronics, etc.

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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 Passive Radiative Cooling Film market
Detailed Segmentation:
Each section contains quantitative market data including market by value (US$ Millions), volume (production, consumption) & (Sq m) 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 Passive Radiative Cooling Film Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Passive Radiative Cooling Film Market, Segmentation by Type:

Transmission Type

Reflection Type

Global Passive Radiative Cooling Film Market, Segmentation by Reflectivity:

Reflectivity Greater Than 96%

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Reflectivity Less Than 96%

Global Passive Radiative Cooling Film Market, Segmentation by Color:

White

Colored

Global Passive Radiative Cooling Film Market, Segmentation by Application:

Construction Industry

Logistics and Warehousing

Transportation Equipment

Energy and Power Facilities

Others

Companies Profiled:

SPACE COOL

Azure Era

MG Energy

i2Cool

Radi-Cool

3M

SVG Optoelectronics

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Key Questions Answered:

1. How big is the global Passive Radiative Cooling Film market?
2. What is the demand of the global Passive Radiative Cooling Film market?
3. What is the year over year growth of the global Passive Radiative Cooling Film market?
4. What is the production and production value of the global Passive Radiative Cooling Film market?
5. Who are the key producers in the global Passive Radiative Cooling Film market?
6. What are the growth factors driving the market demand?

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