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Global Passive Radiative Cooling Film 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 Passive Radiative Cooling Film market size was valued at US$ 14.35 million in 2025 and is forecast to a readjusted size of US$ 70.58 million by 2032 with a CAGR of 24.2% during review period.

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

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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 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 is a detailed and comprehensive analysis for global Passive Radiative Cooling Film 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 Passive Radiative Cooling Film market size and forecasts, in consumption value ($ Million), sales quantity (Sq m), and average selling prices (US$/Sq m), 2021-2032

Global Passive Radiative Cooling Film market size and forecasts by region and country, in consumption value ($ Million), sales quantity (Sq m), and average selling prices (US$/Sq m), 2021-2032

Global Passive Radiative Cooling Film market size and forecasts, by Type and by Application, in consumption value ($ Million), sales quantity (Sq m), and average selling

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prices (US$/Sq m), 2021-2032

Global Passive Radiative Cooling Film market shares of main players, shipments in revenue ($ Million), sales quantity (Sq m), and ASP (US$/Sq m), 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 Passive Radiative Cooling Film

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 Passive Radiative Cooling Film 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 SPACE COOL, Azure Era, MG Energy, i2Cool, Radi-Cool, 3M, SVG Optoelectronics, etc.

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

Market Segmentation

Passive Radiative Cooling Film 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

Transmission Type

Reflection Type

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Market segment by Reflectivity

- Reflectivity Greater Than 96%
- Reflectivity Less Than 96%

Market segment by Color

- White
- Colored

Market segment by Application

- Construction Industry
- Logistics and Warehousing
- Transportation Equipment
- Energy and Power Facilities
- Others

Major players covered

- SPACE COOL
- Azure Era
- MG Energy
- i2Cool

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Radi-Cool

3M

SVG Optoelectronics

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 Passive Radiative Cooling Film product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Passive Radiative Cooling Film, with price, sales quantity, revenue, and global market share of Passive Radiative Cooling Film from 2021 to 2026.

Chapter 3, the Passive Radiative Cooling Film competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Passive Radiative Cooling Film 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

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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 Passive Radiative Cooling Film 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 Passive Radiative Cooling Film.

Chapter 14 and 15, to describe Passive Radiative Cooling Film sales channel, distributors, customers, research findings and conclusion.

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