

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

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## Abstracts

The global Photonic Radiative Cooling Film market size is expected to reach \$ 2845 million by 2032, rising at a market growth of 23.1% CAGR during the forecast period (2026-2032).

Photonic radiative cooling film is a passive thermal-management material engineered to reflect most incoming solar radiation ( $0.3\text{--}2.5\ \mu\text{m}$ ) while simultaneously emitting heat efficiently through the mid-infrared atmospheric window ( $8\text{--}13\ \mu\text{m}$ ), enabling surfaces to cool below ambient temperature without external energy input. The supply chain begins upstream with polymer resins (e.g., polyethylene, polypropylene, PET), inorganic fillers and pigments (such as  $\text{SiO}_2$ ,  $\text{Al}_2\text{O}_3$ ,  $\text{CaCO}_3$ ), and optional functional additives, followed by midstream processing that includes nanostructure design, compounding, multilayer co-extrusion or coating, and optical tuning to achieve high solar reflectance and infrared emissivity; downstream, the films are laminated or applied onto substrates for deployment in building envelopes, rooftops, cold-chain packaging, vehicles, and outdoor equipment, with end users spanning construction, energy-efficient infrastructure, logistics, and industrial thermal management. In 2025, global photonic radiative cooling film production was about 85 million  $\text{m}^2$ , supported by installed capacity of roughly 115 million  $\text{m}^2$  per year. Average selling prices range from USD 6.5 to 12 per  $\text{m}^2$ , while leading manufacturers typically achieve gross margins of around 41%.

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

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

### **Highlights and key features of the study**

Global Photonic Radiative Cooling Film total production and demand, 2021-2032, (K Sqm)

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

Global Photonic Radiative Cooling Film production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Sqm), (based on production site)

Global Photonic Radiative Cooling Film consumption by region & country, CAGR, 2021-2032 & (K Sqm)

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

Global Photonic Radiative Cooling Film production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Sqm)

Global Photonic Radiative Cooling Film production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Sqm)

Global Photonic Radiative Cooling Film production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Sqm)

This report profiles key players in the global Photonic 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 SkyCool Systems (USA), 3M Company (USA), Radi-Cool (USA), Spacecool (Japan), i2Cool (Hong Kong), Azure Era (China), HITEC Films (China), SVG Optoelectronics (China), Ruiling New Energy Materials (China), GEMAR International (Philippines), 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 Photonic Radiative Cooling Film 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 Photonic Radiative Cooling Film Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

#### Global Photonic Radiative Cooling Film Market, Segmentation by Type:

Polyolefin Based Film

Fluoropolymer Based Film

#### Global Photonic Radiative Cooling Film Market, Segmentation by Optical Performance:

Ultra-high Solar Reflectance (>95%)

Balanced Solar Reflectance (90–95%)

#### Global Photonic Radiative Cooling Film Market, Segmentation by Application:

Construction

Logistic

Industrial

Energy & Power

Others

#### Companies Profiled:

SkyCool Systems (USA)

3M Company (USA)

Radi-Cool (USA)

Spacecool (Japan)

i2Cool (Hong Kong)

Azure Era (China)

HITEC Films (China)

SVG Optoelectronics (China)

Ruiling New Energy Materials (China)

GEMAR International (Philippines)

#### **Key Questions Answered:**

1. How big is the global Photonic Radiative Cooling Film market?
2. What is the demand of the global Photonic Radiative Cooling Film market?
3. What is the year over year growth of the global Photonic Radiative Cooling Film market?

4. What is the production and production value of the global Photonic Radiative Cooling Film market?
5. Who are the key producers in the global Photonic Radiative Cooling Film market?
6. What are the growth factors driving the market demand?

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