+357 96 030922
info@marketpublishers.com

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

https://marketpublishers.com/r/G662EED92346EN.html
Date: January 2026
Pages: 134
Price: US$ 4,480.00 (Single User License)
ID: G662EED92346EN

Abstracts

The global Passive Daytime Radiative Cooling Materials market size is expected to reach $ 123 million by 2032, rising at a market growth of 25.9% CAGR during the forecast period (2026-2032).
Passive daytime radiative cooling (PDRC) materials are engineered surfaces?often films, paints, or coatings?that can lower their temperature under direct sunlight without consuming energy by balancing two optical properties: they reflect most incoming solar radiation (so they absorb very little heat from the sun) and they strongly emit thermal infrared radiation in the atmospheric ?transparent window? (roughly 8?13 ?m), allowing heat to radiate from the surface to the cold sky/outer space. When designed well and used on sky-facing surfaces, this combination can keep the material cooler than conventional surfaces and, under favorable weather (clear skies, low humidity, low wind), can even cool to below ambient air temperature. The average price of coating products is approximately US$6.29 per square meter, while the average price of film products is US$30 per square meter. Upstream sectors therefore span (1) materials: high-bandgap white pigments/fillers (e.g., BaSO?, CaCO?, TiO?), polymer binders/resins, solvents (for liquid systems), and additives for dispersion, rheology, UV stability, and anti-soiling; (2) substrates & converting: roof membranes, metal panels, plastics, fabrics, primers, adhesives, and packaging; and (3) manufacturing & QA: paint-making/dispersing, film extrusion/lamination or scalable coating processes (e.g., spray/roll/dip/phase-inversion approaches) plus optical/thermal metrology to verify reflectance/emittance consistency. Downstream, PDRC materials flow into construction and roofing (new build + retrofit roofs/facades), industrial assets (tanks, warehouses, cold-chain surfaces), and outdoor infrastructure/equipment (enclosures, transport surfaces), typically sold through coating/roofing distributors, contractors, and OEM partnerships; adoption is often gated by standard test metrics (solar reflectance, thermal emittance, and SRI) used in cool-surface procurement and specifications.

+357 96 030922
info@marketpublishers.com

The market opportunity for PDRC materials is strongest where customers value a passive, no-electricity way to cut surface temperatures and reduce cooling loads/peak demand, and where procurement can be ?pulled through? existing cool-roof/cool-surface specification habits?but PDRC must prove incremental value beyond conventional high-reflectance coatings. Competition is therefore less about the basic physics (widely understood) and more about bankable field performance: maintaining high reflectance/emittance over time despite UV exposure, soiling, moisture, and real-world installation variability, with climate effects (humidity/cloud cover) and maintenance practices shaping realized benefits. Commercial winners tend to be those who can industrialize durable, standards-aligned products (including versions compatible with common roof systems and application methods), document performance with credible testing, and partner with established coatings/roofing channels?while R&D focus areas like anti-soiling, long-life binders, and scalable film/coating manufacturing determine how quickly PDRC moves from ?specialty? to mainstream building and infrastructure specifications.

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

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

Highlights and key features of the study

Global Passive Daytime Radiative Cooling Materials total production and demand, 2021-2032, (K Sqm)

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

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

Global Passive Daytime Radiative Cooling Materials consumption by region & country, CAGR, 2021-2032 & (K Sqm)

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

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

Global Passive Daytime Radiative Cooling Materials production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Sqm)

+357 96 030922
info@marketpublishers.com

Global Passive Daytime Radiative Cooling Materials production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Sqm)
This report profiles key players in the global Passive Daytime Radiative Cooling Materials 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, i2Cool, MG Energy, Radi-Cool, CSCEC, Pirta, Cryox, 3M, AkzoNobel, 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 Passive Daytime Radiative Cooling Materials 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 Passive Daytime Radiative Cooling Materials Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Passive Daytime Radiative Cooling Materials Market, Segmentation by Type:

Paints

+357 96 030922
info@marketpublishers.com

Films

Others

Global Passive Daytime Radiative Cooling Materials Market, Segmentation by Reflectivity:

Reflectivity Greater Than 96%

Reflectivity Less Than 96%

Global Passive Daytime Radiative Cooling Materials Market, Segmentation by Color:

White

Colored

Transparent

Global Passive Daytime Radiative Cooling Materials Market, Segmentation by Application:

Construction Industry

Warehousing

Transportation Equipment

Energy and Power Facilities

Others

Companies Profiled:

+357 96 030922
info@marketpublishers.com

SPACE COOL

Azure Era

i2Cool

MG Energy

Radi-Cool

CSCEC

Pirta

Cryox

3M

AkzoNobel

Aorun Advanced Materials

SKSHU Paint

Nippon Paint

Beixin Jiabaoli Coatings

Key Questions Answered:

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

+357 96 030922
info@marketpublishers.com

6. What are the growth factors driving the market demand?

+357 96 030922
info@marketpublishers.com

Contents

+357 96 030922
info@marketpublishers.com

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

4 UNITED STATES VS CHINA VS REST OF THE WORLD

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

5 MARKET ANALYSIS BY TYPE

6 MARKET ANALYSIS BY REFLECTIVITY

7 MARKET ANALYSIS BY COLOR

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

10 INDUSTRY CHAIN ANALYSIS

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

List Of Tables

LIST OF TABLES

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

List Of Figures

LIST OF FIGURES

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

I would like to order

Product name: Global Passive Daytime Radiative Cooling Materials Supply, Demand and Key Producers, 2026-2032

Product link: https://marketpublishers.com/r/G662EED92346EN.html

Price: US$ 4,480.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:
info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page https://marketpublishers.com/r/G662EED92346EN.html