

# Global Thermochromic Low-emissivity Film Market Growth 2026-2032

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## Abstracts

The global Thermochromic Low-emissivity Film market size is predicted to grow from US\$ 1152 million in 2025 to US\$ 2818 million in 2032; it is expected to grow at a CAGR of 13.7% from 2026 to 2032.

Thermochromic Low-emissivity Film is a smart functional coating or laminate that automatically changes its optical properties—primarily infrared (IR) transmittance and reflectance—in response to temperature, while maintaining low thermal emissivity to reduce heat transfer; when temperatures rise, the film darkens or increases IR reflection to block solar heat gain, and when temperatures drop, it becomes more transparent to allow passive solar heating, improving energy efficiency and thermal comfort in buildings, vehicles, and specialty glazing. Its supply chain begins upstream with raw materials such as thermochromic compounds (e.g., vanadium dioxide–based systems or organic thermochromic dyes), polymer substrates (PET, TPU, or polycarbonate), sputtering targets or precursors for Low-E layers (silver, metal oxides), and specialty additives; the midstream includes film formulation, coating and deposition processes (solution coating, roll-to-roll sputtering, CVD/PVD), curing, and lamination to achieve durability and optical control; downstream, the films are converted and integrated by glass processors, window manufacturers, automotive glazing suppliers, and building-envelope integrators, before reaching end users in architectural windows, automotive sunroofs and side glass, skylights, and energy-efficient retrofits, with performance and compliance influenced by regional building codes and energy standards. In 2025, global thermochromic Low-E film production was about 47 million m<sup>2</sup>, backed by 80 million m<sup>2</sup> of annual capacity, with unit prices of USD 18–45 per m<sup>2</sup> and average gross margins around 43%.

United States market for Thermochromic Low-emissivity Film is estimated to increase

from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for Thermochromic Low-emissivity Film is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for Thermochromic Low-emissivity Film is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key Thermochromic Low-emissivity Film players cover 3M Company (USA), Eastman Chemical (USA), Saint-Gobain (France), Johnson Window Films (USA), Madico (USA), etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

LP Information, Inc. (LPI) ' newest research report, the "Thermochromic Low-emissivity Film Industry Forecast" looks at past sales and reviews total world Thermochromic Low-emissivity Film sales in 2025, providing a comprehensive analysis by region and market sector of projected Thermochromic Low-emissivity Film sales for 2026 through 2032. With Thermochromic Low-emissivity Film sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Thermochromic Low-emissivity Film industry.

This Insight Report provides a comprehensive analysis of the global Thermochromic Low-emissivity Film landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Thermochromic Low-emissivity Film portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Thermochromic Low-emissivity Film market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Thermochromic Low-emissivity Film and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Thermochromic Low-emissivity Film.

This report presents a comprehensive overview, market shares, and growth opportunities of Thermo-chromic Low-emissivity Film market by product type, application, key manufacturers and key regions and countries.

#### Segmentation by Type:

- Ultra-low-E Film (
- Standard Low-E Film (0.10–0.25)

#### Segmentation by Switching Temperature:

- Low Temperature Switching (35 °C)

#### Segmentation by Application:

- Construction

- Industrial

- Automotive

- Marine

- Aerospace

- Others

This report also splits the market by region:

- Americas

  - United States

  - Canada

  - Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

## GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

3M Company (USA)

Eastman Chemical (USA)

Saint-Gobain (France)

Johnson Window Films (USA)

Madico (USA)

Toray Industries (Japan)

LINTEC Corporation (Japan)

Garware Hi-Tech Films (India)

H?per Optik (Germany)

FilmTack (Singapore)

Reflectiv (France)

Geoshield Window Film (USA)

Decorative Films (USA)

Thermolite (USA)

Maxpro Window Films (USA)

## Key Questions Addressed in this Report

What is the 10-year outlook for the global Thermo-chromic Low-emissivity Film market?  
What factors are driving Thermo-chromic Low-emissivity Film market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Thermo-chromic Low-emissivity Film market opportunities vary by end market size?

How does Thermo-chromic Low-emissivity Film break out by Type, by Application?

## Contents

### 1 SCOPE OF THE REPORT

- 1.1 Market Introduction
- 1.2 Years Considered
- 1.3 Research Objectives
- 1.4 Market Research Methodology
- 1.5 Research Process and Data Source
- 1.6 Economic Indicators
- 1.7 Currency Considered
- 1.8 Market Estimation Caveats

### 2 EXECUTIVE SUMMARY

#### 2.1 World Market Overview

- 2.1.1 Global Thermochromic Low-emissivity Film Annual Sales 2021-2032
- 2.1.2 World Current & Future Analysis for Thermochromic Low-emissivity Film by Geographic Region, 2021, 2025 & 2032
- 2.1.3 World Current & Future Analysis for Thermochromic Low-emissivity Film by Country/Region, 2021, 2025 & 2032
- 2.2 Thermochromic Low-emissivity Film Segment by Type
  - 2.2.1 Ultra-low-E Film ( 2.2.2 Standard Low-E Film (0.10–0.25)
  - 2.2.3 Thermochromic Low-emissivity Film Sales by Type
    - 2.2.3.1 Global Thermochromic Low-emissivity Film Sales Market Share by Type (2021-2026)
    - 2.2.3.2 Global Thermochromic Low-emissivity Film Revenue and Market Share by Type (2021-2026)
    - 2.2.3.3 Global Thermochromic Low-emissivity Film Sale Price by Type (2021-2026)
- 2.3 Thermochromic Low-emissivity Film Segment by Switching Temperature
  - 2.3.1 Low Temperature Switching (35 °C)
  - 2.3.4 Thermochromic Low-emissivity Film Sales by Switching Temperature
    - 2.3.4.1 Global Thermochromic Low-emissivity Film Sales Market Share by Switching Temperature (2021-2026)
    - 2.3.4.2 Global Thermochromic Low-emissivity Film Revenue and Market Share by Switching Temperature (2021-2026)
    - 2.3.4.3 Global Thermochromic Low-emissivity Film Sale Price by Switching Temperature (2021-2026)
- 2.4 Thermochromic Low-emissivity Film Segment by Application

- 2.4.1 Construction
- 2.4.2 Industrial
- 2.4.3 Automotive
- 2.4.4 Marine
- 2.4.5 Aerospace
- 2.4.6 Others
- 2.4.7 Thermochromic Low-emissivity Film Sales by Application
  - 2.4.7.1 Global Thermochromic Low-emissivity Film Sale Market Share by Application (2021-2026)
  - 2.4.7.2 Global Thermochromic Low-emissivity Film Revenue and Market Share by Application (2021-2026)
  - 2.4.7.3 Global Thermochromic Low-emissivity Film Sale Price by Application (2021-2026)

### **3 GLOBAL BY COMPANY**

- 3.1 Global Thermochromic Low-emissivity Film Breakdown Data by Company
  - 3.1.1 Global Thermochromic Low-emissivity Film Annual Sales by Company (2021-2026)
  - 3.1.2 Global Thermochromic Low-emissivity Film Sales Market Share by Company (2021-2026)
- 3.2 Global Thermochromic Low-emissivity Film Annual Revenue by Company (2021-2026)
  - 3.2.1 Global Thermochromic Low-emissivity Film Revenue by Company (2021-2026)
  - 3.2.2 Global Thermochromic Low-emissivity Film Revenue Market Share by Company (2021-2026)
- 3.3 Global Thermochromic Low-emissivity Film Sale Price by Company
- 3.4 Key Manufacturers Thermochromic Low-emissivity Film Producing Area Distribution, Sales Area, Product Type
  - 3.4.1 Key Manufacturers Thermochromic Low-emissivity Film Product Location Distribution
  - 3.4.2 Players Thermochromic Low-emissivity Film Products Offered
- 3.5 Market Concentration Rate Analysis
  - 3.5.1 Competition Landscape Analysis
  - 3.5.2 Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)
- 3.6 New Products and Potential Entrants
- 3.7 Market M&A Activity & Strategy

### **4 WORLD HISTORIC REVIEW FOR THERMOCHROMIC LOW-EMISSION FILM BY**

## **GEOGRAPHIC REGION**

4.1 World Historic Thermochromic Low-emissivity Film Market Size by Geographic Region (2021-2026)

4.1.1 Global Thermochromic Low-emissivity Film Annual Sales by Geographic Region (2021-2026)

4.1.2 Global Thermochromic Low-emissivity Film Annual Revenue by Geographic Region (2021-2026)

4.2 World Historic Thermochromic Low-emissivity Film Market Size by Country/Region (2021-2026)

4.2.1 Global Thermochromic Low-emissivity Film Annual Sales by Country/Region (2021-2026)

4.2.2 Global Thermochromic Low-emissivity Film Annual Revenue by Country/Region (2021-2026)

4.3 Americas Thermochromic Low-emissivity Film Sales Growth

4.4 APAC Thermochromic Low-emissivity Film Sales Growth

4.5 Europe Thermochromic Low-emissivity Film Sales Growth

4.6 Middle East & Africa Thermochromic Low-emissivity Film Sales Growth

## **5 AMERICAS**

5.1 Americas Thermochromic Low-emissivity Film Sales by Country

5.1.1 Americas Thermochromic Low-emissivity Film Sales by Country (2021-2026)

5.1.2 Americas Thermochromic Low-emissivity Film Revenue by Country (2021-2026)

5.2 Americas Thermochromic Low-emissivity Film Sales by Type (2021-2026)

5.3 Americas Thermochromic Low-emissivity Film Sales by Application (2021-2026)

5.4 United States

5.5 Canada

5.6 Mexico

5.7 Brazil

## **6 APAC**

6.1 APAC Thermochromic Low-emissivity Film Sales by Region

6.1.1 APAC Thermochromic Low-emissivity Film Sales by Region (2021-2026)

6.1.2 APAC Thermochromic Low-emissivity Film Revenue by Region (2021-2026)

6.2 APAC Thermochromic Low-emissivity Film Sales by Type (2021-2026)

6.3 APAC Thermochromic Low-emissivity Film Sales by Application (2021-2026)

6.4 China

- 6.5 Japan
- 6.6 South Korea
- 6.7 Southeast Asia
- 6.8 India
- 6.9 Australia
- 6.10 China Taiwan

## **7 EUROPE**

- 7.1 Europe Thermochromic Low-emissivity Film by Country
  - 7.1.1 Europe Thermochromic Low-emissivity Film Sales by Country (2021-2026)
  - 7.1.2 Europe Thermochromic Low-emissivity Film Revenue by Country (2021-2026)
- 7.2 Europe Thermochromic Low-emissivity Film Sales by Type (2021-2026)
- 7.3 Europe Thermochromic Low-emissivity Film Sales by Application (2021-2026)
- 7.4 Germany
- 7.5 France
- 7.6 UK
- 7.7 Italy
- 7.8 Russia

## **8 MIDDLE EAST & AFRICA**

- 8.1 Middle East & Africa Thermochromic Low-emissivity Film by Country
  - 8.1.1 Middle East & Africa Thermochromic Low-emissivity Film Sales by Country (2021-2026)
  - 8.1.2 Middle East & Africa Thermochromic Low-emissivity Film Revenue by Country (2021-2026)
- 8.2 Middle East & Africa Thermochromic Low-emissivity Film Sales by Type (2021-2026)
- 8.3 Middle East & Africa Thermochromic Low-emissivity Film Sales by Application (2021-2026)
- 8.4 Egypt
- 8.5 South Africa
- 8.6 Israel
- 8.7 Turkey
- 8.8 GCC Countries

## **9 MARKET DRIVERS, CHALLENGES AND TRENDS**

- 9.1 Market Drivers & Growth Opportunities
- 9.2 Market Challenges & Risks
- 9.3 Industry Trends

## **10 MANUFACTURING COST STRUCTURE ANALYSIS**

- 10.1 Raw Material and Suppliers
- 10.2 Manufacturing Cost Structure Analysis of Thermochromic Low-emissivity Film
- 10.3 Manufacturing Process Analysis of Thermochromic Low-emissivity Film
- 10.4 Industry Chain Structure of Thermochromic Low-emissivity Film

## **11 MARKETING, DISTRIBUTORS AND CUSTOMER**

- 11.1 Sales Channel
  - 11.1.1 Direct Channels
  - 11.1.2 Indirect Channels
- 11.2 Thermochromic Low-emissivity Film Distributors
- 11.3 Thermochromic Low-emissivity Film Customer

## **12 WORLD FORECAST REVIEW FOR THERMOCHROMIC LOW-EMISSION FILM BY GEOGRAPHIC REGION**

- 12.1 Global Thermochromic Low-emissivity Film Market Size Forecast by Region
  - 12.1.1 Global Thermochromic Low-emissivity Film Forecast by Region (2027-2032)
  - 12.1.2 Global Thermochromic Low-emissivity Film Annual Revenue Forecast by Region (2027-2032)
- 12.2 Americas Forecast by Country (2027-2032)
- 12.3 APAC Forecast by Region (2027-2032)
- 12.4 Europe Forecast by Country (2027-2032)
- 12.5 Middle East & Africa Forecast by Country (2027-2032)
- 12.6 Global Thermochromic Low-emissivity Film Forecast by Type (2027-2032)
- 12.7 Global Thermochromic Low-emissivity Film Forecast by Application (2027-2032)

## **13 KEY PLAYERS ANALYSIS**

- 13.1 3M Company (USA)
  - 13.1.1 3M Company (USA) Company Information
  - 13.1.2 3M Company (USA) Thermochromic Low-emissivity Film Product Portfolios and Specifications

13.1.3 3M Company (USA) Thermochromic Low-emissivity Film Sales, Revenue, Price and Gross Margin (2021-2026)

13.1.4 3M Company (USA) Main Business Overview

13.1.5 3M Company (USA) Latest Developments

13.2 Eastman Chemical (USA)

13.2.1 Eastman Chemical (USA) Company Information

13.2.2 Eastman Chemical (USA) Thermochromic Low-emissivity Film Product Portfolios and Specifications

13.2.3 Eastman Chemical (USA) Thermochromic Low-emissivity Film Sales, Revenue, Price and Gross Margin (2021-2026)

13.2.4 Eastman Chemical (USA) Main Business Overview

13.2.5 Eastman Chemical (USA) Latest Developments

13.3 Saint-Gobain (France)

13.3.1 Saint-Gobain (France) Company Information

13.3.2 Saint-Gobain (France) Thermochromic Low-emissivity Film Product Portfolios and Specifications

13.3.3 Saint-Gobain (France) Thermochromic Low-emissivity Film Sales, Revenue, Price and Gross Margin (2021-2026)

13.3.4 Saint-Gobain (France) Main Business Overview

13.3.5 Saint-Gobain (France) Latest Developments

13.4 Johnson Window Films (USA)

13.4.1 Johnson Window Films (USA) Company Information

13.4.2 Johnson Window Films (USA) Thermochromic Low-emissivity Film Product Portfolios and Specifications

13.4.3 Johnson Window Films (USA) Thermochromic Low-emissivity Film Sales, Revenue, Price and Gross Margin (2021-2026)

13.4.4 Johnson Window Films (USA) Main Business Overview

13.4.5 Johnson Window Films (USA) Latest Developments

13.5 Madico (USA)

13.5.1 Madico (USA) Company Information

13.5.2 Madico (USA) Thermochromic Low-emissivity Film Product Portfolios and Specifications

13.5.3 Madico (USA) Thermochromic Low-emissivity Film Sales, Revenue, Price and Gross Margin (2021-2026)

13.5.4 Madico (USA) Main Business Overview

13.5.5 Madico (USA) Latest Developments

13.6 Toray Industries (Japan)

13.6.1 Toray Industries (Japan) Company Information

13.6.2 Toray Industries (Japan) Thermochromic Low-emissivity Film Product Portfolios

## and Specifications

13.6.3 Toray Industries (Japan) Thermochromic Low-emissivity Film Sales, Revenue, Price and Gross Margin (2021-2026)

13.6.4 Toray Industries (Japan) Main Business Overview

13.6.5 Toray Industries (Japan) Latest Developments

## 13.7 LINTEC Corporation (Japan)

13.7.1 LINTEC Corporation (Japan) Company Information

13.7.2 LINTEC Corporation (Japan) Thermochromic Low-emissivity Film Product Portfolios and Specifications

13.7.3 LINTEC Corporation (Japan) Thermochromic Low-emissivity Film Sales, Revenue, Price and Gross Margin (2021-2026)

13.7.4 LINTEC Corporation (Japan) Main Business Overview

13.7.5 LINTEC Corporation (Japan) Latest Developments

## 13.8 Garware Hi-Tech Films (India)

13.8.1 Garware Hi-Tech Films (India) Company Information

13.8.2 Garware Hi-Tech Films (India) Thermochromic Low-emissivity Film Product Portfolios and Specifications

13.8.3 Garware Hi-Tech Films (India) Thermochromic Low-emissivity Film Sales, Revenue, Price and Gross Margin (2021-2026)

13.8.4 Garware Hi-Tech Films (India) Main Business Overview

13.8.5 Garware Hi-Tech Films (India) Latest Developments

## 13.9 H?per Optik (Germany)

13.9.1 H?per Optik (Germany) Company Information

13.9.2 H?per Optik (Germany) Thermochromic Low-emissivity Film Product Portfolios and Specifications

13.9.3 H?per Optik (Germany) Thermochromic Low-emissivity Film Sales, Revenue, Price and Gross Margin (2021-2026)

13.9.4 H?per Optik (Germany) Main Business Overview

13.9.5 H?per Optik (Germany) Latest Developments

## 13.10 FilmTack (Singapore)

13.10.1 FilmTack (Singapore) Company Information

13.10.2 FilmTack (Singapore) Thermochromic Low-emissivity Film Product Portfolios and Specifications

13.10.3 FilmTack (Singapore) Thermochromic Low-emissivity Film Sales, Revenue, Price and Gross Margin (2021-2026)

13.10.4 FilmTack (Singapore) Main Business Overview

13.10.5 FilmTack (Singapore) Latest Developments

## 13.11 Reflectiv (France)

13.11.1 Reflectiv (France) Company Information

- 13.11.2 Reflectiv (France) Thermochromic Low-emissivity Film Product Portfolios and Specifications
- 13.11.3 Reflectiv (France) Thermochromic Low-emissivity Film Sales, Revenue, Price and Gross Margin (2021-2026)
- 13.11.4 Reflectiv (France) Main Business Overview
- 13.11.5 Reflectiv (France) Latest Developments
- 13.12 Geoshield Window Film (USA)
  - 13.12.1 Geoshield Window Film (USA) Company Information
  - 13.12.2 Geoshield Window Film (USA) Thermochromic Low-emissivity Film Product Portfolios and Specifications
  - 13.12.3 Geoshield Window Film (USA) Thermochromic Low-emissivity Film Sales, Revenue, Price and Gross Margin (2021-2026)
  - 13.12.4 Geoshield Window Film (USA) Main Business Overview
  - 13.12.5 Geoshield Window Film (USA) Latest Developments
- 13.13 Decorative Films (USA)
  - 13.13.1 Decorative Films (USA) Company Information
  - 13.13.2 Decorative Films (USA) Thermochromic Low-emissivity Film Product Portfolios and Specifications
  - 13.13.3 Decorative Films (USA) Thermochromic Low-emissivity Film Sales, Revenue, Price and Gross Margin (2021-2026)
  - 13.13.4 Decorative Films (USA) Main Business Overview
  - 13.13.5 Decorative Films (USA) Latest Developments
- 13.14 Thermolite (USA)
  - 13.14.1 Thermolite (USA) Company Information
  - 13.14.2 Thermolite (USA) Thermochromic Low-emissivity Film Product Portfolios and Specifications
  - 13.14.3 Thermolite (USA) Thermochromic Low-emissivity Film Sales, Revenue, Price and Gross Margin (2021-2026)
  - 13.14.4 Thermolite (USA) Main Business Overview
  - 13.14.5 Thermolite (USA) Latest Developments
- 13.15 Maxpro Window Films (USA)
  - 13.15.1 Maxpro Window Films (USA) Company Information
  - 13.15.2 Maxpro Window Films (USA) Thermochromic Low-emissivity Film Product Portfolios and Specifications
  - 13.15.3 Maxpro Window Films (USA) Thermochromic Low-emissivity Film Sales, Revenue, Price and Gross Margin (2021-2026)
  - 13.15.4 Maxpro Window Films (USA) Main Business Overview
  - 13.15.5 Maxpro Window Films (USA) Latest Developments

## 14 RESEARCH FINDINGS AND CONCLUSION

## List Of Tables

### LIST OF TABLES

Table 1. Thermochromic Low-emissivity Film Annual Sales CAGR by Geographic Region (2021, 2025 & 2032) & (\$ millions)

Table 2. Thermochromic Low-emissivity Film Annual Sales CAGR by Country/Region (2021, 2025 & 2032) & (\$ millions)

Table 3. Major Players of Ultra-low-E Film (Table 4. Major Players of Standard Low-E Film (0.10–0.25)

Table 5. Global Thermochromic Low-emissivity Film Sales by Type (2021-2026) & (K Sqm)

Table 6. Global Thermochromic Low-emissivity Film Sales Market Share by Type (2021-2026)

Table 7. Global Thermochromic Low-emissivity Film Revenue by Type (2021-2026) & (\$ million)

Table 8. Global Thermochromic Low-emissivity Film Revenue Market Share by Type (2021-2026)

Table 9. Global Thermochromic Low-emissivity Film Sale Price by Type (2021-2026) & (US\$/Sq m)

Table 10. Major Players of Low Temperature Switching (35 °C)

Table 13. Global Thermochromic Low-emissivity Film Sales by Switching Temperature (2021-2026) & (K Sqm)

Table 14. Global Thermochromic Low-emissivity Film Sales Market Share by Switching Temperature (2021-2026)

Table 15. Global Thermochromic Low-emissivity Film Revenue by Switching Temperature (2021-2026) & (\$ million)

Table 16. Global Thermochromic Low-emissivity Film Revenue Market Share by Switching Temperature (2021-2026)

Table 17. Global Thermochromic Low-emissivity Film Sale Price by Switching Temperature (2021-2026) & (US\$/Sq m)

Table 18. Global Thermochromic Low-emissivity Film Sale by Application (2021-2026) & (K Sqm)

Table 19. Global Thermochromic Low-emissivity Film Sale Market Share by Application (2021-2026)

Table 20. Global Thermochromic Low-emissivity Film Revenue by Application (2021-2026) & (\$ million)

Table 21. Global Thermochromic Low-emissivity Film Revenue Market Share by Application (2021-2026)

Table 22. Global Thermochromic Low-emissivity Film Sale Price by Application (2021-2026) & (US\$/Sq m)

Table 23. Global Thermochromic Low-emissivity Film Sales by Company (2021-2026) & (K Sqm)

Table 24. Global Thermochromic Low-emissivity Film Sales Market Share by Company (2021-2026)

Table 25. Global Thermochromic Low-emissivity Film Revenue by Company (2021-2026) & (\$ millions)

Table 26. Global Thermochromic Low-emissivity Film Revenue Market Share by Company (2021-2026)

Table 27. Global Thermochromic Low-emissivity Film Sale Price by Company (2021-2026) & (US\$/Sq m)

Table 28. Key Manufacturers Thermochromic Low-emissivity Film Producing Area Distribution and Sales Area

Table 29. Players Thermochromic Low-emissivity Film Products Offered

Table 30. Thermochromic Low-emissivity Film Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

Table 31. New Products and Potential Entrants

Table 32. Market M&A Activity & Strategy

Table 33. Global Thermochromic Low-emissivity Film Sales by Geographic Region (2021-2026) & (K Sqm)

Table 34. Global Thermochromic Low-emissivity Film Sales Market Share Geographic Region (2021-2026)

Table 35. Global Thermochromic Low-emissivity Film Revenue by Geographic Region (2021-2026) & (\$ millions)

Table 36. Global Thermochromic Low-emissivity Film Revenue Market Share by Geographic Region (2021-2026)

Table 37. Global Thermochromic Low-emissivity Film Sales by Country/Region (2021-2026) & (K Sqm)

Table 38. Global Thermochromic Low-emissivity Film Sales Market Share by Country/Region (2021-2026)

Table 39. Global Thermochromic Low-emissivity Film Revenue by Country/Region (2021-2026) & (\$ millions)

Table 40. Global Thermochromic Low-emissivity Film Revenue Market Share by Country/Region (2021-2026)

Table 41. Americas Thermochromic Low-emissivity Film Sales by Country (2021-2026) & (K Sqm)

Table 42. Americas Thermochromic Low-emissivity Film Sales Market Share by Country (2021-2026)

- Table 43. Americas Thermochromic Low-emissivity Film Revenue by Country (2021-2026) & (\$ millions)
- Table 44. Americas Thermochromic Low-emissivity Film Sales by Type (2021-2026) & (K Sqm)
- Table 45. Americas Thermochromic Low-emissivity Film Sales by Application (2021-2026) & (K Sqm)
- Table 46. APAC Thermochromic Low-emissivity Film Sales by Region (2021-2026) & (K Sqm)
- Table 47. APAC Thermochromic Low-emissivity Film Sales Market Share by Region (2021-2026)
- Table 48. APAC Thermochromic Low-emissivity Film Revenue by Region (2021-2026) & (\$ millions)
- Table 49. APAC Thermochromic Low-emissivity Film Sales by Type (2021-2026) & (K Sqm)
- Table 50. APAC Thermochromic Low-emissivity Film Sales by Application (2021-2026) & (K Sqm)
- Table 51. Europe Thermochromic Low-emissivity Film Sales by Country (2021-2026) & (K Sqm)
- Table 52. Europe Thermochromic Low-emissivity Film Revenue by Country (2021-2026) & (\$ millions)
- Table 53. Europe Thermochromic Low-emissivity Film Sales by Type (2021-2026) & (K Sqm)
- Table 54. Europe Thermochromic Low-emissivity Film Sales by Application (2021-2026) & (K Sqm)
- Table 55. Middle East & Africa Thermochromic Low-emissivity Film Sales by Country (2021-2026) & (K Sqm)
- Table 56. Middle East & Africa Thermochromic Low-emissivity Film Revenue Market Share by Country (2021-2026)
- Table 57. Middle East & Africa Thermochromic Low-emissivity Film Sales by Type (2021-2026) & (K Sqm)
- Table 58. Middle East & Africa Thermochromic Low-emissivity Film Sales by Application (2021-2026) & (K Sqm)
- Table 59. Key Market Drivers & Growth Opportunities of Thermochromic Low-emissivity Film
- Table 60. Key Market Challenges & Risks of Thermochromic Low-emissivity Film
- Table 61. Key Industry Trends of Thermochromic Low-emissivity Film
- Table 62. Thermochromic Low-emissivity Film Raw Material
- Table 63. Key Suppliers of Raw Materials
- Table 64. Thermochromic Low-emissivity Film Distributors List

Table 65. Thermochromic Low-emissivity Film Customer List

Table 66. Global Thermochromic Low-emissivity Film Sales Forecast by Region (2027-2032) & (K Sqm)

Table 67. Global Thermochromic Low-emissivity Film Revenue Forecast by Region (2027-2032) & (\$ millions)

Table 68. Americas Thermochromic Low-emissivity Film Sales Forecast by Country (2027-2032) & (K Sqm)

Table 69. Americas Thermochromic Low-emissivity Film Annual Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 70. APAC Thermochromic Low-emissivity Film Sales Forecast by Region (2027-2032) & (K Sqm)

Table 71. APAC Thermochromic Low-emissivity Film Annual Revenue Forecast by Region (2027-2032) & (\$ millions)

Table 72. Europe Thermochromic Low-emissivity Film Sales Forecast by Country (2027-2032) & (K Sqm)

Table 73. Europe Thermochromic Low-emissivity Film Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 74. Middle East & Africa Thermochromic Low-emissivity Film Sales Forecast by Country (2027-2032) & (K Sqm)

Table 75. Middle East & Africa Thermochromic Low-emissivity Film Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 76. Global Thermochromic Low-emissivity Film Sales Forecast by Type (2027-2032) & (K Sqm)

Table 77. Global Thermochromic Low-emissivity Film Revenue Forecast by Type (2027-2032) & (\$ millions)

Table 78. Global Thermochromic Low-emissivity Film Sales Forecast by Application (2027-2032) & (K Sqm)

Table 79. Global Thermochromic Low-emissivity Film Revenue Forecast by Application (2027-2032) & (\$ millions)

Table 80. 3M Company (USA) Basic Information, Thermochromic Low-emissivity Film Manufacturing Base, Sales Area and Its Competitors

Table 81. 3M Company (USA) Thermochromic Low-emissivity Film Product Portfolios and Specifications

Table 82. 3M Company (USA) Thermochromic Low-emissivity Film Sales (K Sqm), Revenue (\$ Million), Price (US\$/Sq m) and Gross Margin (2021-2026)

Table 83. 3M Company (USA) Main Business

Table 84. 3M Company (USA) Latest Developments

Table 85. Eastman Chemical (USA) Basic Information, Thermochromic Low-emissivity Film Manufacturing Base, Sales Area and Its Competitors

Table 86. Eastman Chemical (USA) Thermochromic Low-emissivity Film Product Portfolios and Specifications

Table 87. Eastman Chemical (USA) Thermochromic Low-emissivity Film Sales (K Sqm), Revenue (\$ Million), Price (US\$/Sq m) and Gross Margin (2021-2026)

Table 88. Eastman Chemical (USA) Main Business

Table 89. Eastman Chemical (USA) Latest Developments

Table 90. Saint-Gobain (France) Basic Information, Thermochromic Low-emissivity Film Manufacturing Base, Sales Area and Its Competitors

Table 91. Saint-Gobain (France) Thermochromic Low-emissivity Film Product Portfolios and Specifications

Table 92. Saint-Gobain (France) Thermochromic Low-emissivity Film Sales (K Sqm), Revenue (\$ Million), Price (US\$/Sq m) and Gross Margin (2021-2026)

Table 93. Saint-Gobain (France) Main Business

Table 94. Saint-Gobain (France) Latest Developments

Table 95. Johnson Window Films (USA) Basic Information, Thermochromic Low-emissivity Film Manufacturing Base, Sales Area and Its Competitors

Table 96. Johnson Window Films (USA) Thermochromic Low-emissivity Film Product Portfolios and Specifications

Table 97. Johnson Window Films (USA) Thermochromic Low-emissivity Film Sales (K Sqm), Revenue (\$ Million), Price (US\$/Sq m) and Gross Margin (2021-2026)

Table 98. Johnson Window Films (USA) Main Business

Table 99. Johnson Window Films (USA) Latest Developments

Table 100. Madico (USA) Basic Information, Thermochromic Low-emissivity Film Manufacturing Base, Sales Area and Its Competitors

Table 101. Madico (USA) Thermochromic Low-emissivity Film Product Portfolios and Specifications

Table 102. Madico (USA) Thermochromic Low-emissivity Film Sales (K Sqm), Revenue (\$ Million), Price (US\$/Sq m) and Gross Margin (2021-2026)

Table 103. Madico (USA) Main Business

Table 104. Madico (USA) Latest Developments

Table 105. Toray Industries (Japan) Basic Information, Thermochromic Low-emissivity Film Manufacturing Base, Sales Area and Its Competitors

Table 106. Toray Industries (Japan) Thermochromic Low-emissivity Film Product Portfolios and Specifications

Table 107. Toray Industries (Japan) Thermochromic Low-emissivity Film Sales (K Sqm), Revenue (\$ Million), Price (US\$/Sq m) and Gross Margin (2021-2026)

Table 108. Toray Industries (Japan) Main Business

Table 109. Toray Industries (Japan) Latest Developments

Table 110. LINTEC Corporation (Japan) Basic Information, Thermochromic Low-

emissivity Film Manufacturing Base, Sales Area and Its Competitors

Table 111. LINTEC Corporation (Japan) Thermochromic Low-emissivity Film Product Portfolios and Specifications

Table 112. LINTEC Corporation (Japan) Thermochromic Low-emissivity Film Sales (K Sqm), Revenue (\$ Million), Price (US\$/Sq m) and Gross Margin (2021-2026)

Table 113. LINTEC Corporation (Japan) Main Business

Table 114. LINTEC Corporation (Japan) Latest Developments

Table 115. Garware Hi-Tech Films (India) Basic Information, Thermochromic Low-emissivity Film Manufacturing Base, Sales Area and Its Competitors

Table 116. Garware Hi-Tech Films (India) Thermochromic Low-emissivity Film Product Portfolios and Specifications

Table 117. Garware Hi-Tech Films (India) Thermochromic Low-emissivity Film Sales (K Sqm), Revenue (\$ Million), Price (US\$/Sq m) and Gross Margin (2021-2026)

Table 118. Garware Hi-Tech Films (India) Main Business

Table 119. Garware Hi-Tech Films (India) Latest Developments

Table 120. H?per Optik (Germany) Basic Information, Thermochromic Low-emissivity Film Manufacturing Base, Sales Area and Its Competitors

Table 121. H?per Optik (Germany) Thermochromic Low-emissivity Film Product Portfolios and Specifications

Table 122. H?per Optik (Germany) Thermochromic Low-emissivity Film Sales (K Sqm), Revenue (\$ Million), Price (US\$/Sq m) and Gross Margin (2021-2026)

Table 123. H?per Optik (Germany) Main Business

Table 124. H?per Optik (Germany) Latest Developments

Table 125. FilmTack (Singapore) Basic Information, Thermochromic Low-emissivity Film Manufacturing Base, Sales Area and Its Competitors

Table 126. FilmTack (Singapore) Thermochromic Low-emissivity Film Product Portfolios and Specifications

Table 127. FilmTack (Singapore) Thermochromic Low-emissivity Film Sales (K Sqm), Revenue (\$ Million), Price (US\$/Sq m) and Gross Margin (2021-2026)

Table 128. FilmTack (Singapore) Main Business

Table 129. FilmTack (Singapore) Latest Developments

Table 130. Reflectiv (France) Basic Information, Thermochromic Low-emissivity Film Manufacturing Base, Sales Area and Its Competitors

Table 131. Reflectiv (France) Thermochromic Low-emissivity Film Product Portfolios and Specifications

Table 132. Reflectiv (France) Thermochromic Low-emissivity Film Sales (K Sqm), Revenue (\$ Million), Price (US\$/Sq m) and Gross Margin (2021-2026)

Table 133. Reflectiv (France) Main Business

Table 134. Reflectiv (France) Latest Developments

Table 135. Geoshield Window Film (USA) Basic Information, Thermochromic Low-emissivity Film Manufacturing Base, Sales Area and Its Competitors

Table 136. Geoshield Window Film (USA) Thermochromic Low-emissivity Film Product Portfolios and Specifications

Table 137. Geoshield Window Film (USA) Thermochromic Low-emissivity Film Sales (K Sqm), Revenue (\$ Million), Price (US\$/Sq m) and Gross Margin (2021-2026)

Table 138. Geoshield Window Film (USA) Main Business

Table 139. Geoshield Window Film (USA) Latest Developments

Table 140. Decorative Films (USA) Basic Information, Thermochromic Low-emissivity Film Manufacturing Base, Sales Area and Its Competitors

Table 141. Decorative Films (USA) Thermochromic Low-emissivity Film Product Portfolios and Specifications

Table 142. Decorative Films (USA) Thermochromic Low-emissivity Film Sales (K Sqm), Revenue (\$ Million), Price (US\$/Sq m) and Gross Margin (2021-2026)

Table 143. Decorative Films (USA) Main Business

Table 144. Decorative Films (USA) Latest Developments

Table 145. Thermolite (USA) Basic Information, Thermochromic Low-emissivity Film Manufacturing Base, Sales Area and Its Competitors

Table 146. Thermolite (USA) Thermochromic Low-emissivity Film Product Portfolios and Specifications

Table 147. Thermolite (USA) Thermochromic Low-emissivity Film Sales (K Sqm), Revenue (\$ Million), Price (US\$/Sq m) and Gross Margin (2021-2026)

Table 148. Thermolite (USA) Main Business

Table 149. Thermolite (USA) Latest Developments

Table 150. Maxpro Window Films (USA) Basic Information, Thermochromic Low-emissivity Film Manufacturing Base, Sales Area and Its Competitors

Table 151. Maxpro Window Films (USA) Thermochromic Low-emissivity Film Product Portfolios and Specifications

Table 152. Maxpro Window Films (USA) Thermochromic Low-emissivity Film Sales (K Sqm), Revenue (\$ Million), Price (US\$/Sq m) and Gross Margin (2021-2026)

Table 153. Maxpro Window Films (USA) Main Business

Table 154. Maxpro Window Films (USA) Latest Developments

## List Of Figures

### LIST OF FIGURES

- Figure 1. Picture of Thermochromic Low-emissivity Film
- Figure 2. Thermochromic Low-emissivity Film Report Years Considered
- Figure 3. Research Objectives
- Figure 4. Research Methodology
- Figure 5. Research Process and Data Source
- Figure 6. Global Thermochromic Low-emissivity Film Sales Growth Rate 2021-2032 (K Sqm)
- Figure 7. Global Thermochromic Low-emissivity Film Revenue Growth Rate 2021-2032 (\$ millions)
- Figure 8. Thermochromic Low-emissivity Film Sales by Geographic Region (2021, 2025 & 2032) & (\$ millions)
- Figure 9. Thermochromic Low-emissivity Film Sales Market Share by Country/Region (2025)
- Figure 10. Thermochromic Low-emissivity Film Sales Market Share by Country/Region (2021, 2025 & 2032)
- Figure 11. Product Picture of Ultra-low-E Film (Figure 12. Product Picture of Standard Low-E Film (0.10–0.25))
- Figure 13. Global Thermochromic Low-emissivity Film Sales Market Share by Type in 2026
- Figure 14. Global Thermochromic Low-emissivity Film Revenue Market Share by Type (2021-2026)
- Figure 15. Product Picture of Low Temperature Switching (35 °C)
- Figure 18. Global Thermochromic Low-emissivity Film Sales Market Share by Switching Temperature in 2026
- Figure 19. Global Thermochromic Low-emissivity Film Revenue Market Share by Switching Temperature (2021-2026)
- Figure 20. Thermochromic Low-emissivity Film Consumed in Construction
- Figure 21. Global Thermochromic Low-emissivity Film Market: Construction (2021-2026) & (K Sqm)
- Figure 22. Thermochromic Low-emissivity Film Consumed in Industrial
- Figure 23. Global Thermochromic Low-emissivity Film Market: Industrial (2021-2026) & (K Sqm)
- Figure 24. Thermochromic Low-emissivity Film Consumed in Automotive
- Figure 25. Global Thermochromic Low-emissivity Film Market: Automotive (2021-2026) & (K Sqm)

- Figure 26. Thermochromic Low-emissivity Film Consumed in Marine
- Figure 27. Global Thermochromic Low-emissivity Film Market: Marine (2021-2026) & (K Sqm)
- Figure 28. Thermochromic Low-emissivity Film Consumed in Aerospace
- Figure 29. Global Thermochromic Low-emissivity Film Market: Aerospace (2021-2026) & (K Sqm)
- Figure 30. Thermochromic Low-emissivity Film Consumed in Others
- Figure 31. Global Thermochromic Low-emissivity Film Market: Others (2021-2026) & (K Sqm)
- Figure 32. Global Thermochromic Low-emissivity Film Sale Market Share by Application (2025)
- Figure 33. Global Thermochromic Low-emissivity Film Revenue Market Share by Application in 2025
- Figure 34. Thermochromic Low-emissivity Film Sales by Company in 2025 (K Sqm)
- Figure 35. Global Thermochromic Low-emissivity Film Sales Market Share by Company in 2025
- Figure 36. Thermochromic Low-emissivity Film Revenue by Company in 2025 (\$ millions)
- Figure 37. Global Thermochromic Low-emissivity Film Revenue Market Share by Company in 2025
- Figure 38. Global Thermochromic Low-emissivity Film Sales Market Share by Geographic Region (2021-2026)
- Figure 39. Global Thermochromic Low-emissivity Film Revenue Market Share by Geographic Region in 2025
- Figure 40. Americas Thermochromic Low-emissivity Film Sales 2021-2026 (K Sqm)
- Figure 41. Americas Thermochromic Low-emissivity Film Revenue 2021-2026 (\$ millions)
- Figure 42. APAC Thermochromic Low-emissivity Film Sales 2021-2026 (K Sqm)
- Figure 43. APAC Thermochromic Low-emissivity Film Revenue 2021-2026 (\$ millions)
- Figure 44. Europe Thermochromic Low-emissivity Film Sales 2021-2026 (K Sqm)
- Figure 45. Europe Thermochromic Low-emissivity Film Revenue 2021-2026 (\$ millions)
- Figure 46. Middle East & Africa Thermochromic Low-emissivity Film Sales 2021-2026 (K Sqm)
- Figure 47. Middle East & Africa Thermochromic Low-emissivity Film Revenue 2021-2026 (\$ millions)
- Figure 48. Americas Thermochromic Low-emissivity Film Sales Market Share by Country in 2025
- Figure 49. Americas Thermochromic Low-emissivity Film Revenue Market Share by Country (2021-2026)

Figure 50. Americas Thermochromic Low-emissivity Film Sales Market Share by Type (2021-2026)

Figure 51. Americas Thermochromic Low-emissivity Film Sales Market Share by Application (2021-2026)

Figure 52. United States Thermochromic Low-emissivity Film Revenue Growth 2021-2026 (\$ millions)

Figure 53. Canada Thermochromic Low-emissivity Film Revenue Growth 2021-2026 (\$ millions)

Figure 54. Mexico Thermochromic Low-emissivity Film Revenue Growth 2021-2026 (\$ millions)

Figure 55. Brazil Thermochromic Low-emissivity Film Revenue Growth 2021-2026 (\$ millions)

Figure 56. APAC Thermochromic Low-emissivity Film Sales Market Share by Region in 2025

Figure 57. APAC Thermochromic Low-emissivity Film Revenue Market Share by Region (2021-2026)

Figure 58. APAC Thermochromic Low-emissivity Film Sales Market Share by Type (2021-2026)

Figure 59. APAC Thermochromic Low-emissivity Film Sales Market Share by Application (2021-2026)

Figure 60. China Thermochromic Low-emissivity Film Revenue Growth 2021-2026 (\$ millions)

Figure 61. Japan Thermochromic Low-emissivity Film Revenue Growth 2021-2026 (\$ millions)

Figure 62. South Korea Thermochromic Low-emissivity Film Revenue Growth 2021-2026 (\$ millions)

Figure 63. Southeast Asia Thermochromic Low-emissivity Film Revenue Growth 2021-2026 (\$ millions)

Figure 64. India Thermochromic Low-emissivity Film Revenue Growth 2021-2026 (\$ millions)

Figure 65. Australia Thermochromic Low-emissivity Film Revenue Growth 2021-2026 (\$ millions)

Figure 66. China Taiwan Thermochromic Low-emissivity Film Revenue Growth 2021-2026 (\$ millions)

Figure 67. Europe Thermochromic Low-emissivity Film Sales Market Share by Country in 2025

Figure 68. Europe Thermochromic Low-emissivity Film Revenue Market Share by Country (2021-2026)

Figure 69. Europe Thermochromic Low-emissivity Film Sales Market Share by Type

(2021-2026)

Figure 70. Europe Thermochromic Low-emissivity Film Sales Market Share by Application (2021-2026)

Figure 71. Germany Thermochromic Low-emissivity Film Revenue Growth 2021-2026 (\$ millions)

Figure 72. France Thermochromic Low-emissivity Film Revenue Growth 2021-2026 (\$ millions)

Figure 73. UK Thermochromic Low-emissivity Film Revenue Growth 2021-2026 (\$ millions)

Figure 74. Italy Thermochromic Low-emissivity Film Revenue Growth 2021-2026 (\$ millions)

Figure 75. Russia Thermochromic Low-emissivity Film Revenue Growth 2021-2026 (\$ millions)

Figure 76. Middle East & Africa Thermochromic Low-emissivity Film Sales Market Share by Country (2021-2026)

Figure 77. Middle East & Africa Thermochromic Low-emissivity Film Sales Market Share by Type (2021-2026)

Figure 78. Middle East & Africa Thermochromic Low-emissivity Film Sales Market Share by Application (2021-2026)

Figure 79. Egypt Thermochromic Low-emissivity Film Revenue Growth 2021-2026 (\$ millions)

Figure 80. South Africa Thermochromic Low-emissivity Film Revenue Growth 2021-2026 (\$ millions)

Figure 81. Israel Thermochromic Low-emissivity Film Revenue Growth 2021-2026 (\$ millions)

Figure 82. Turkey Thermochromic Low-emissivity Film Revenue Growth 2021-2026 (\$ millions)

Figure 83. GCC Countries Thermochromic Low-emissivity Film Revenue Growth 2021-2026 (\$ millions)

Figure 84. Manufacturing Cost Structure Analysis of Thermochromic Low-emissivity Film in 2026

Figure 85. Manufacturing Process Analysis of Thermochromic Low-emissivity Film

Figure 86. Industry Chain Structure of Thermochromic Low-emissivity Film

Figure 87. Channels of Distribution

Figure 88. Global Thermochromic Low-emissivity Film Sales Market Forecast by Region (2027-2032)

Figure 89. Global Thermochromic Low-emissivity Film Revenue Market Share Forecast by Region (2027-2032)

Figure 90. Global Thermochromic Low-emissivity Film Sales Market Share Forecast by

Type (2027-2032)

Figure 91. Global Thermo-chromic Low-emissivity Film Revenue Market Share Forecast by Type (2027-2032)

Figure 92. Global Thermo-chromic Low-emissivity Film Sales Market Share Forecast by Application (2027-2032)

Figure 93. Global Thermo-chromic Low-emissivity Film Revenue Market Share Forecast by Application (2027-2032)

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