

# Transparent Ceramic Market: Trends, Opportunities and Competitive Analysis

<https://marketpublishers.com/r/T747D696BDC6EN.html>

Date: July 2022

Pages: 140

Price: US\$ 4,850.00 (Single User License)

ID: T747D696BDC6EN

## Abstracts

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### Transparent Ceramic Market Trends and Forecast

The future of the transparent ceramic market looks promising with opportunities in the optics & optoelectronics, aerospace, defense & security, mechanical/chemical, sensors & instrumentation sector. The global transparent ceramic market is expected to reach an estimated \$488.2 million by 2027 with a CAGR of 7.6 from 2021 to 2027. The major drivers for this market are increasing miniaturization of electronic devices, equipment, and components and the rise in the need for modernization in environmental engineering.

### Emerging Trends in the Transparent Ceramic Market

Emerging trends, which have a direct impact on the dynamics of the industry, include usage of transparent non-cubic laser ceramic for optical applications and transparent ferroelectric glass-ceramic for wastewater treatment by piezocatalysis.

A total of 64 figures / charts and 48 tables are provided in this 140 page report to help in your business decisions. A sample figure with insights is shown below. To learn the scope of benefits, companies researched, and other details of the transparent ceramic market report, please download the report brochure.

### Transparent Ceramic Market by Segment

The study includes a forecast for the global transparent ceramic market by end use industry, material type, product type, and region as follows:

Transparent Ceramic Market by End Use [Value (\$M) shipment analysis for 2016 – 2027]:

Optics & Optoelectronics

Aerospace, Defense & Security

Mechanical/Chemical

Sensors & Instrumentation

Others

Transparent Ceramic Market by Material Type [Value (\$M) analysis for 2016 – 2027]:

Sapphire

Yttrium Aluminum Garnet

Aluminum Oxynitride

Spinel

Others (Yttria & Cubic Zirconia)

Transparent Ceramic Market by Material Type [Value (\$M) analysis for 2016 – 2027]:

Monocrystalline Transparent Ceramics

Polycrystalline Transparent Ceramics

Others (glass-Ceramics, glass-crystal, and nanomaterials)

Transparent Ceramic Market by Region [Value (\$M) shipment analysis for 2016 – 2027]:

North America

Europe

Asia Pacific

The Rest of the World

### List of Transparent Ceramic Companies

Companies in the market compete on the basis of product quality offered. Major players in this market focus on expanding their manufacturing facilities, R&D investments, infrastructural development, and leverage integration opportunities across the value chain. With these strategies transparent ceramic companies cater increasing demand, ensure competitive effectiveness, develop innovative products & technologies, reduce production costs, and expand their customer base. Some of the transparent ceramic companies profiled in this report includes.

CeramTec

CoorsTek Inc

Schott AG

Bright Crystals Technology Inc

II-VI Optical Systems

Surmet Corporation

American Elements

Ceranova Corporation

CILAS

Konoshima Chemicals

## Transparent Ceramic Market Insight

Lucintel forecasts that optics & optoelectronics will remain the largest end use industry over the forecast period due to increasing demand for transparent ceramic products due to their optical transparency and high temperature, corrosion resistance, insulation, and sheer strength.

Sapphire will remain the largest material type and it is also expected to witness the highest growth over the forecast period due to the growing demand for low cost, transparent ceramic in structural applications.

Asia Pacific is expected to remain the largest region and witness the highest growth over the forecast period due to the anticipated growth in the end user industries and increasing focus on high performance transparent ceramic

## Features of Transparent Ceramic Market

**Market Size Estimates:** Transparent ceramic fiber market size estimation in terms of value (\$M)

**Trend and Forecast Analysis:** Market trends (2016-2021) and forecast (2022-2027) by various segments and regions.

**Segmentation Analysis:** Market size by end use industry, material type, product type, and region

**Regional Analysis:** Transparent ceramic market breakdown by North America, Europe, Asia Pacific, and the Rest of the World.

**Growth Opportunities:** Analysis of growth opportunities in different end use industry, product type and regions for the transparent ceramic market.

**Strategic Analysis:** This includes M&A, new product development, and competitive landscape for the transparent ceramic market.

Analysis of competitive intensity of the industry based on Porter's Five Forces model.

## FAQ

Q1. What is the transparent ceramic market size?

Answer: The global transparent ceramic market is expected to reach an estimated \$488.2 million by 2027

Q2. What is the growth forecast for transparent ceramic market?

Answer: The transparent ceramic market is expected to grow at a CAGR of 7.6% from 2021 to 2027.

Q3. What are the major drivers influencing the growth of the transparent ceramic market?

Answer: The major drivers for this market are increasing miniaturization of electronic devices, equipment, and components and the rise in the need for modernization in environmental engineering.

Q4. What are the major applications or end use industries for transparent ceramic?

Answer: Optics and optoelectronics, aerospace, defense & security, mechanical/chemical, sensors & instrumentation industries are the major end use industries for transparent ceramic.

Q5. What are the emerging trends in transparent ceramic market?

Answer: Emerging trends, which have a direct impact on the dynamics of the industry, include usage of transparent non-cubic laser ceramic for optical applications and transparent ferroelectric glass-ceramic for wastewater treatment by piezocatalysis.

Q6. Who are the key transparent ceramic companies?

Answer: Some of the key transparent ceramic companies are as follows:

CeramTec

CoorsTek Inc.

Schott AG

Bright Crystals Technology Inc.

II-VI Optical Systems

Surmet Corporation

American Elements

Ceranova Corporation

CILAS

Konoshima Chemicals

Q7. Which transparent ceramic material segment will be the largest in future?

Answer: Lucintel forecasts that sapphire will remain the largest material type over the forecast period due to its excellent optical properties, high wear and scratch resistance, a high operating temperature, is chemically inert, and has high strength, high electrical resistance, and high thermal conductivity.

Q8. In transparent ceramic market, which region is expected to be the largest in next 5 years?

Answer: Asia Pacific is expected to remain the largest region and witness the highest growth over next 5 years.

Q9. Do we receive customization in this report?

Answer: Yes, Lucintel provides 10% Customization Without any Additional Cost.

This report answers following 11 key questions

Q.1 What are some of the most promising potential, high growth opportunities for the global transparent ceramic market by (optics & optoelectronics, aerospace, defense & security, mechanical/chemical, sensors & instrumentation, and others), material type (sapphire, yttrium aluminum garnet, aluminum oxynitride, spinel, and others (yttria & cubic zirconia)), product type (monocrystalline transparent ceramics, polycrystalline transparent ceramics, and others (glass-ceramics, glass-crystal, and nanomaterials), and region (North America, Europe, APAC, and the Rest of the World)?

Q.2 Which segments will grow at a faster pace and why?

Q.3 Which regions will grow at a faster pace and why?

Q.4 What are the key factors affecting market dynamics? What are the drivers and challenges of the market?

Q.5 What are the business risks and threats to the market?

Q.6 What are the emerging trends in this market and the reasons behind them?

Q.7 What are the changing demands of customers in the market?

Q.8 What are the new developments in the market? Which companies are leading these developments?

Q.9 Who are the major players in this market? What strategic initiatives are being implemented by key players for business growth?

Q.10 What are some of the competitive products and processes in this area and how big of a threat do they pose for loss of market share via material or product substitution?

Q.11 What M & A activities have taken place in the last 5 years in this market?

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