

Smart Glass Opportunities in the Automotive Industry—2014

<https://marketpublishers.com/r/SD1A4AE4ACDEN.html>

Date: March 2014

Pages: 75

Price: US\$ 1,995.00 (Single User License)

ID: SD1A4AE4ACDEN

Abstracts

This report provides an in-depth analysis of the worldwide market for smart glass used in cars and trucks identifying the main opportunities that smart glass presents for glass and coatings makers as well as for the car firms themselves. In addition, the report includes an eight-year (volume and value) forecast of smart auto glass with breakouts by materials technology and functionality. The report incorporates a technology assessment of the latest smart glass technologies for the automotive sector including self-tinting glass, self-cleaning glass, self-healing glass, and automotive display glass. Applications covered are windshields, mirrors, sunroofs, other automotive windows and dashboards. The report also discusses the glass-related opportunities that NanoMarkets sees emerging as the result of the latest trends in automotive infotainment systems. This report pinpoints the main trends that will shape the revenue potential of smart auto glass in the next decade. Noting that many of the smart glass technologies used in cars and trucks have low performance and short lifetimes, this report analyzes how performance will be improved and how this can lead to enhanced revenue streams for the firms involved with smart auto glass, both as technology providers and as OEMs. Finally, the report also discusses smart glass adoption strategies by the major automobile and light truck companies, along with the product, market and supply chain strategies of key firms that are shaping the market for smart auto.

Contents

EXECUTIVE SUMMARY

- E.1 The Meanings and Locations of Smart Auto Glass
- E.2 Four Key Drivers for the Use of Smart Glass in the Automotive Sector
 - E.2.1 Self-Tinting Glass in the Automotive Sector
 - E.2.2 PDLC Privacy Glass in the Automotive Sector
 - E.2.3 Smart Mirrors
 - E.2.4 Self-Cleaning Glass
 - E.2.5 Self-Healing Glass
 - E.2.6 Embedded Intelligence in Smart Auto Glass.
- E.3 Six Companies that will Shape the Smart Auto Glass Business
- E.4 Opportunities for Glass Makers
- E.5 Opportunities for Specialty Chemical Companies
- E.6 Summary of Eight-Year Forecasts for Smart Windows Materials

CHAPTER ONE: INTRODUCTION

- 1.1 Background to this Report
 - 1.1.1 Automobiles, Glass and the Internet-of-Things
 - 1.1.2 Environment, Fuel Efficiency and Smart Glass
 - 1.1.3 Smart Glass, Comfort and Design Trends
- 1.2 Objectives and Scope of This Report
- 1.3 Methodology of this Report
- 1.4 Plan of this Report

CHAPTER TWO: ASSESSMENT OF SMART GLASS TECHNOLOGIES FOR THE AUTOMOTIVE MARKET

- 2.1 Forecasts and Forecasting Methodology
 - 2.1.1 Scope of Forecasts
 - 2.1.2 Data Sources
 - 2.1.3 Alternative Scenarios and Market Risks
- 2.2 Strategic Role of Glass in the Automobile Industry
 - 2.2.1 Growing Emphasis on Complex Glazing
- 2.3 Self-Tinting Windows and Window Film
 - 2.3.1 Relationship to Retrofit Window Film Market
- 2.4 The Market for Electrochromic Glass in the Automotive Sector

- 2.4.1 Why Electrochromic Glass May Become More Common in the Automotive Sector
- 2.4.2 Suppliers of Electrochromic Windows for the Automotive Sector
- 2.4.3 Eight-Year Forecasts for Electrochromic Smart Windows in the Automotive Sector
- 2.4.4 Market Forecast and Supply Structure Analysis for Electrochromic Self-Dimming Auto Mirrors
- 2.5 Could SPD Dominate Auto Glass?
 - 2.5.1 SPD Technology
 - 2.5.2 SPD Customers in the Automotive Sector
 - 2.5.3 Role of Research Frontiers
 - 2.5.4 Eight-Year Forecasts of SPD Technology in the Automotive Sector
- 2.6 Thermochromic Glass in the Auto Industry
 - 2.6.1 Eight-Year Forecasts of Thermochromic Technology in the Automotive Sector
- 2.7 Photochromic Glass in the Auto Industry
 - 2.7.1 SWITCH Materials
 - 2.7.2 Eight-Year Forecasts of Photochromic Technology in the Automotive Sector
- 2.8 PDLC and Privacy Glass in Autos
 - 2.8.1 Eight-Year Forecasts of PDLC Technology in the Automotive Sector
- 2.9 Self-Cleaning Glass in the Automotive Sector
 - 2.9.1 Self-Cleaning Glass Technology: Current State of the Art and Future Technology Directions
 - 2.9.2 Actual and Potential Suppliers of Self-Cleaning Glass Technology
 - 2.9.3 Eight-Year Forecasts of Self-Cleaning Automotive Glass
- 2.10 A Future for Self-Healing Glass in the Auto Industry?
 - 2.10.1 Evolution of Self-Repairing Coatings
 - 2.10.2 Firms Active in the Self-Healing/Self-Repairing Coating Sector
 - 2.10.3 Eight-Year Forecasts of Self-Healing Automotive Glass
- 2.11 Markets for Auto Glass-Embedded Electronics
 - 2.11.1 Heads-Up Displays in Windshields
 - 2.11.2 Glass for Dashboards, Information Displays and Entertainment Features
 - 2.11.3 Adding Photovoltaic Capability to Auto Windows
 - 2.11.4 Eight-Year Forecasts of Device-Enabled Automotive Glass
- 2.12 Potential for Multi-Functional Glass
- 2.13 Summary of Eight-Year Forecasts of Smart Glass in Automotive Sector by Technology
- 2.14 Key Points from this CHAPTER

CHAPTER THREE: SMART GLASS IN THE CONTEXT OF AUTOMOTIVE INDUSTRY STRUCTURE AND DEVELOPMENTS

3.1 Current Industry Structure and Behavior: Implications for the Auto Glass Sector

3.1.1 Smart Glass and Existing Supply Structure for Auto Glass

3.1.2 Smart Glass and Auto Companies

3.1.3 Smart Glass and Vehicle Types

3.2 Smart Auto Glass and Current Design Trends

3.2.1 Smart Auto Glass May Have its Own Path for Environmental Considerations

3.2.2 Smart Auto Glass and Fuel Economy

3.2.3 High-SPF Glass as an Alternative to Self-Tinting Glass

3.2.4 Windshield and Sunroof Design

3.2.5 Trend Towards More Automotive Telematics May Mean New Kinds of Display Glass

3.3 Smart Auto Glass and Current Production Trends

3.4 Key Points from this CHAPTER

Acronyms and Abbreviations Used In this Report

About the Author

I would like to order

Product name: Smart Glass Opportunities in the Automotive Industry—2014

Product link: <https://marketpublishers.com/r/SD1A4AE4ACDEN.html>

Price: US\$ 1,995.00 (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/SD1A4AE4ACDEN.html>

To pay by Wire Transfer, please, fill in your contact details in the form below:

First name:
Last name:
Email:
Company:
Address:
City:
Zip code:
Country:
Tel:
Fax:
Your message:

****All fields are required**

Customer signature _____

Please, note that by ordering from marketpublishers.com you are agreeing to our Terms & Conditions at <https://marketpublishers.com/docs/terms.html>

To place an order via fax simply print this form, fill in the information below and fax the completed form to +44 20 7900 3970