

Smart Windows Materials Markets: 2014 - 2021



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In the past five years or so, smart (i.e. self-dimming) windows have taken off in both residential and commercial building markets. They are also increasingly used in automobiles and trucks. There are several different smart windows technologies, but all of them are materials plays in one way or another. NanoMarkets believes that, as a result, there are important opportunities for materials firms that are emerging from the smart windows “revolution.”

The objective of this report is to identify and quantify these opportunities. The report contains a granular eight-year forecast in both volume and value terms as well as an assessment of the strategies being deployed in this market by notable firms.

In this report NanoMarkets discusses the opportunities for materials in smart windows and mirrors using electrochromic, photochromic, thermochromic, PDLC, SPD and microblinds. The forecasts and analysis cover not only the active smart materials used in these technologies, but also the substrate materials; both plastic and glass. We also examine changing manufacturing patterns within the smart windows sector.

In addition, this report analyzes a number of different business models being used in the smart windows sector and shows how materials play into the total smart windows value chain. We also discuss the role of technology licensing, as well as direct supply of smart coatings and other materials to glass and windows firms.

NanoMarkets has been covering the smart glass business for more than five years and has therefore acquired a deep understanding of the dynamics of the smart windows sector and of materials selection within that sector. We believe that this report will be of vital interest to specialty chemical firms, as well as both display and build glassmakers, along with windows firms.

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ACRONYMS AND ABBREVIATIONS USED IN THIS REPORT

ABOUT THE AUTHOR

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