

Smart Windows Materials Markets 2015-2022

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Abstracts

From the perspective of materials suppliers, n-tech believes that the smart windows market continues to offer important opportunities. We are seeing older technologies – such as photochromics – become more competitive with the dominant SPD and electrochromic materials and there are also entirely new materials such as hydrogels and versioned display materials that are beginning to play in the smart windows space. We are also impressed with the recent willingness of deep pocket investors and other well-known firms to get involved in the smart windows space.

With these developments in mind, this report identifies and quantifies the opportunities in the smart windows materials space. It 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. The technologies/materials covered in this report include electrochromic, photochromic, hydrogel, thermochromic. PDLC, SPD, hydrogels, pixel-based technologies 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.

Under the name of NanoMarkets, n-tech has been covering the smart glass business for almost seven years and has therefore acquired a deep understanding of the dynamics of the smart windows sector and of materials selection within that sector.

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