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Title: Alon solar glass

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Aluminium oxynitride is optically transparent ($\geq 80\%$ for 2 mm thickness) in the near-ultraviolet, visible, and mid-wave- infrared regions of the electromagnetic spectrum. It is four times as ...

For example, the solar glass industry's growing demand for high-purity alumina (6.2% CAGR) competes directly with AION producers, diverting feedstock and elevating prices.

Transparent aluminum possesses a unique set of properties that make it a game-changer for high-performance applications. It is not ...

In winter, Low-E Alon glass retains interior heat; in summer, it reflects solar heat gain. This reduces HVAC load, lowers energy bills, and supports green building certifications such as ...

Clearly, transparent aluminium (AION) ceramics have been identified as a prospective material for visible-infrared windows, and the mechanical and optical properties of ...

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Transparent aluminum possesses a unique set of properties that make it a game-changer for high-performance applications. It is not only significantly harder than standard ...

Known technically as aluminum oxynitride (AION), this advanced ceramic is capable of withstanding extreme conditions while allowing visible light--and in some cases ...

In architecture, the use of aluminium oxynitride glass provides several advantages over traditional glass. Its exceptional hardness and scratch resistance mean that it can ...

Aluminum oxynitride transparent ceramic has a transmittance high than 80% without coating. The hardness of aluminum oxynitride is 4 times that of quartz glass, 85% of sapphire, and can ...

How does AION compare to traditional glass? AION is significantly stronger and more resistant to scratches and high temperatures than traditional glass, making it suitable for ...

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