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(57) Abstract :

A window glazing unit (100) and method (200) for preparing polymer aerogel for the window glazing unit (100). The window glazing unit (100) a layer of polymer aerogel (102) sandwiched between one or more layers of transparent materials (104). The layer of polymer aerogel (102) used in the window glazings unit (100) provides superior insulation properties compared to traditional materials. It significantly reduces heat transfer between the interior and exterior of a building, resulting in reduced energy consumption for heating and cooling. The layer of polymer aerogel (102) is lightweight and flexible, making it easier to handle and install compared to heavier materials like glass. The layer of polymer aerogel (102) exhibits enhanced durability and resilience compared to traditional glazing materials.

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