



Introducing Genius Mode: AI-Powered Optimization for Laminated Glass Design

Kuraray is taking glass design to the next level with the introduction of Genius Mode, a new AI-driven optimization feature integrated into its digital calculation tools. Instead of manually testing multiple glass configurations, Genius Mode automatically determines the optimal glass build-up for a given application.

Users simply define the project parameters, such as dimensions and loads, and select their priorities: acoustic performance (SoundLab AI), structural strength (Strength Lab AI), and/or carbon footprint (Carbon Reduce AI). Adjustable weighting sliders allow users to emphasize specific performance criteria according to project needs.

Based on these inputs, Genius Mode systematically varies key design parameters and evaluates each configuration. Glass thickness is optimized using a targeted local variation strategy to ensure fast computation times, while all available interlayer types, including Trosifol® and SentryGlas® variants, are assessed for each structure.

The result is a clear, data-driven recommendation for the best-performing glass configuration, balancing sound insulation (R_w , STC, OITC), structural performance (stress and deflection), and environmental impact (carbon footprint).

Key benefits include:

- Significant time savings compared to manual design approaches
- Simultaneous optimization of multiple performance targets
- Transparent, data-based decision-making
- Strong support for customer consultations with concrete figures and comparisons

With Genius Mode, designing high-performance laminated glass systems becomes faster, smarter, and more reliable than ever before.



For more information about Kuraray's Trosifol® PVB and SentryGlas® ionoplast products, please visit the [website](#) or connect with us on our social media channels.

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Kuraray is the leading global producer of PVB and ionoplast interlayers for laminated safety glass applications in the architectural segment. With the biggest product portfolio worldwide, Kuraray offers outstanding solutions:

- Structural: Trosifol® Extra Stiff Pro PVB and SentryGlas® ionoplast films
- Sustainable Glazing: Trosifol® R3, designed to meet the growing demand for eco-friendly solutions
- Acoustic: Trosifol® SC Monolayer and Multilayer PVB films for sound insulation
- Films for UV control: Trosifol® UV Extra Protect, Trosifol® Natural UV and SentryGlas® Natural UV - from complete UV protection to natural UV transmittance
- Trosifol® UltraClear PVB film with the lowest yellowing value in the industry
- Decorative & Design: Black and white, color and printable interlayers
- Bird friendly solutions: Trosifol® BirdSecure® Pro and SentryGlas® BirdSecure® Pro
- Extremely durable scratch-resistant hard coat: Trosifol® Spallshield® CPET

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