

Saflex™ LiteCarbon™ Clear PVB interlayer

Saflex™ interlayers are plasticized polyvinyl butyral (PVB) sheeting produced by Eastman Chemical Company and its affiliates ("Eastman"). These interlayers are permanently bonded through a lamination process to two or more pieces of glazing to produce laminates with impact and glass containment properties. Laminated glass with Saflex interlayers can be classified as safety glazing in accordance with, but not limited to, various regulations such as ANSI Z26.1, ANSI Z97.1, AS/NZS 2208; CNS 1183, CPSC 16 CFR 1201, EN 12600 and ISO 29584.

Saflex LiteCarbon™ Clear is Eastman's first generation of reduced carbon footprint* PVB interlayer. In combination with low carbon float glasses, it can be used to produce laminated glass with a minimal footprint for PVB laminated glass. It enables our customers to take further steps towards net carbon neutrality.

Saflex LiteCarbon Clear is a conventional clear 0.76 mm PVB interlayer (product code RB41L) with the performance of Saflex Clear 0.76 mm (R series). It is produced in conventional widths up to 3.22 m in our Ghent, Belgium production facility.

Saflex LiteCarbon Clear is produced by a well-balanced approach of various sustainability strategies, including the utilization of dedicated pre-consumer recycled content (ISO 14021), enhanced energy efficiency, supply chain optimization and operational excellence. By using these sustainability levers, a significant reduction the carbon footprint of this product was achieved. Post-consumer materials are not used for the production of Saflex interlayers to ensure quality requirements and safety performance.

Saflex LiteCarbon Clear has a target carbon footprint* of 3.0 kg CO₂ eq./kg or 2.4 kg CO₂ eq./m², which is substantiated through third party verified Life Cycle Assessment (LCA) and Environmental Product Declaration (EPD). These values represent a 33% reduction in carbon footprint¹ as compared to Saflex Clear in the same thickness, and a 56% reduction¹ when compared to market guidance value for PVB in general.

Saflex LiteCarbon Clear aligns with the standard performance / product specifications of our Saflex portfolio, including safety performance in laminated glass, optical properties, and processing parameters. Saflex PVB interlayers as produced by Eastman can be recycled in pre- and post-consumer streams where facilities exist.

*Carbon footprint defined as Climate Change indicator per LCA standard ISO 14040/44.

1) LCA carbon footprint summary report for Eastman Saflex Clear (R series) PVB interlayer, February 2023.

2) As calculated from a value of 2.74 kg CO₂ eq./m² for a 0.38 mm PVB interlayer as provided in CWCT publication *How to calculate the embodied carbon of facades: A methodology* (Issue 1, September 2022, p.58).

Keywords: Architectural, Saflex LiteCarbon Clear

Notice: Although the information and/or recommendations as may be set forth herein (hereafter "Information") are presented in good faith and believed to be correct at the date hereof, Eastman Chemical Company and its subsidiaries and affiliates including Eastman Inc. (hereinafter "Eastman") make no representations or warranties as to the completeness or accuracy thereof. Information is supplied upon the condition that the persons receiving same will make their own determination as to its suitability for their purposes prior to use. In no event, will Eastman be responsible for damages of any nature whatsoever resulting from the use of or reliance upon Information or the product to which Information refers. Nothing contained herein is to be construed as a recommendation to use any product, process, equipment or formulation in conflict with any patent, and Eastman makes no representation or warranty, express or implied, that the use thereof will not infringe any patent. NO REPRESENTATIONS OR WARRANTIES, EITHER EXPRESS OR IMPLIED, OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR ANY OTHER NATURE ARE MADE HEREUNDER WITH RESPECT TO INFORMATION OR THE PRODUCT TO WHICH INFORMATION REFERS.

The data presented is derived from samples tested. Results are not guaranteed for all samples or for conditions other than those tested. Data and its respective measured, calculated or estimated single number ratings is for glass panels only – glazing installed in frames may differ significantly in performance.

© 2024 Eastman Chemical Company. Eastman brands referenced herein are trademarks of Eastman or one of its subsidiaries. Non-Eastman brands referenced herein are trademarks of their respective owners.