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Dynamic crack-interface interactions in SGP laminated glass: an experimental investigation

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Highlights

- Either crack arrest or branching damage mode may develop in single-edge notch bend test specimen of SGP laminated glass loaded in three point bending.
- There is a critical distance, between the interface and pre-crack tip, below which the propagating mode-I crack is arrested by the interface.
- The arrest time prior to branching reduces significantly with increasing impact kinetic energy.
- A maximum dynamic stress intensity factor criterion is shown to be capable of predicting whether branching damage mode would appear.

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