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## **Light cure radiopaque resin based ionomer glass liner for light cure composites**



**Technical Product Information**

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## Product description



This product is a light cure, radiopaque resin-based glassionomer liner for light cure composites.

Its field of application is:

- lining of cavities for following filling procedures
- lining of cavities to improve marginal behaviour

## Features and Benefits

### Features:

- thixotropic behavior
- fluoride release
- moisture tolerant
- insoluble
- slight expansion
- high radiopacity

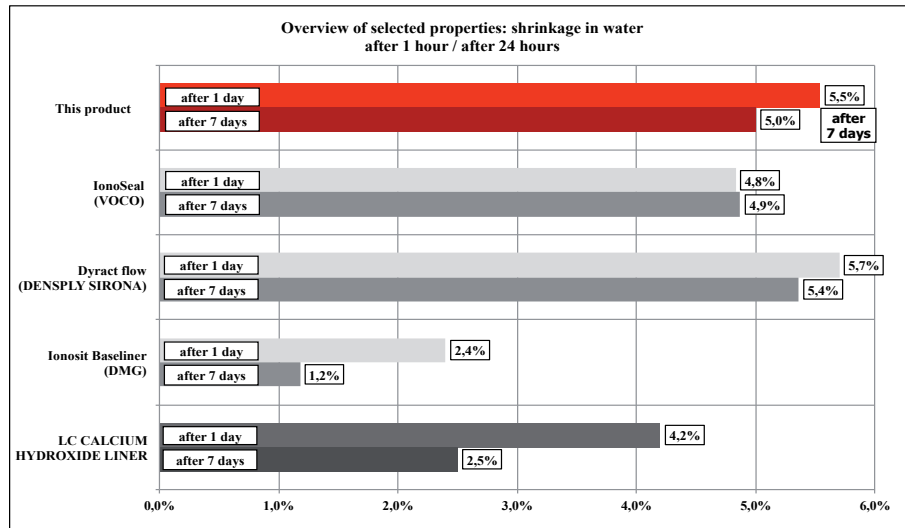
### Benefits:

- precise application
- protection against caries
- long durability
- less polymerization stress
- gap-free margin
- easy x-ray detection

## Shrinkage

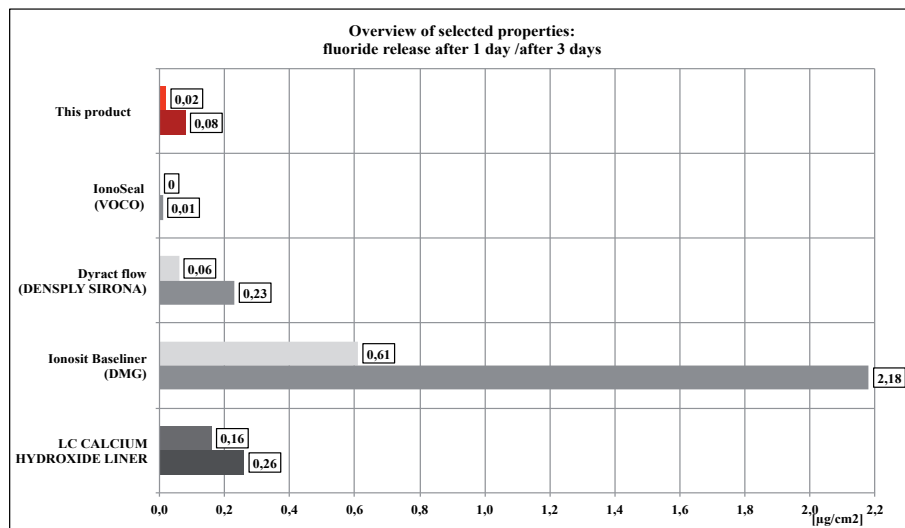
Shrinkage is very important for sealing of the interface between tooth and restoration. Low shrinkage means that the requirement on the adhesive force of the bonding is reduced to achieve a perfect marginal seal.

The slight expansion after setting releases polymerization stress on the interface between tooth and filling and supports a gap-free margin.



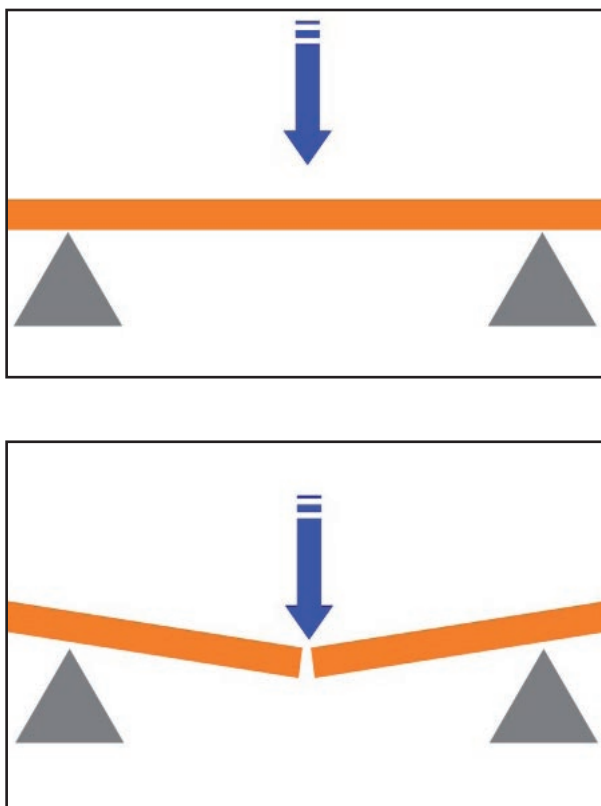
## Fluoride release

The release of fluoride-ions is beneficial for the protecting against caries.

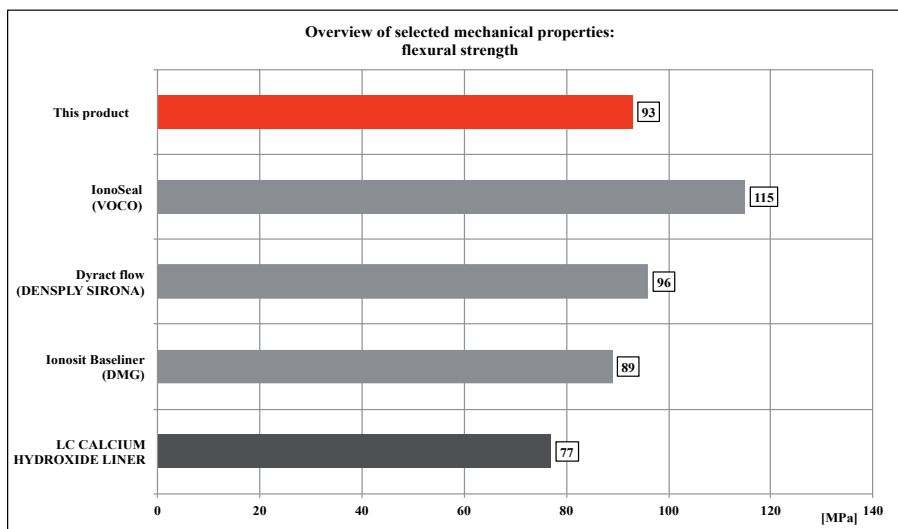


## Mechanical properties: flexural strength

The flexural strength is determined from the 3-Point bending experiment.

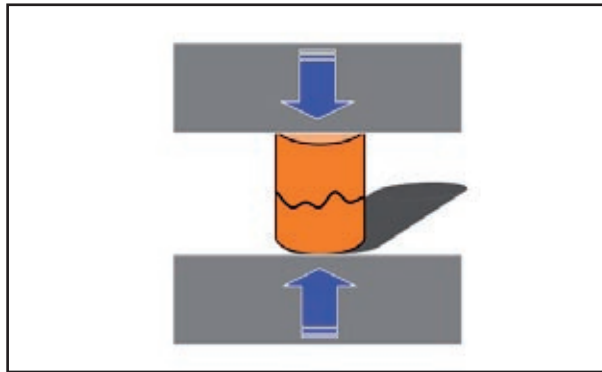
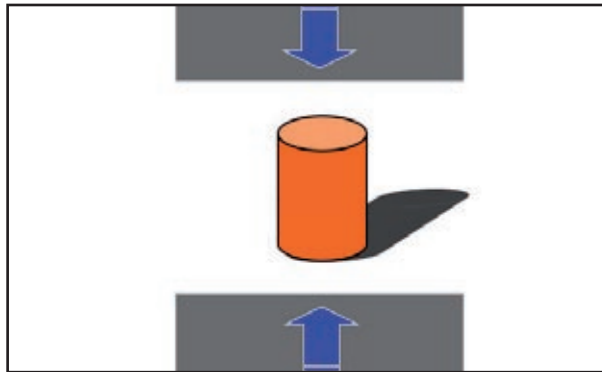


Mechanical stability is important for the clinical success of filling materials. Flexural strength is a very good prediction of the clinical performance in the mouth. Flexural strength values for This product are in the same range as the values for the competitive products.

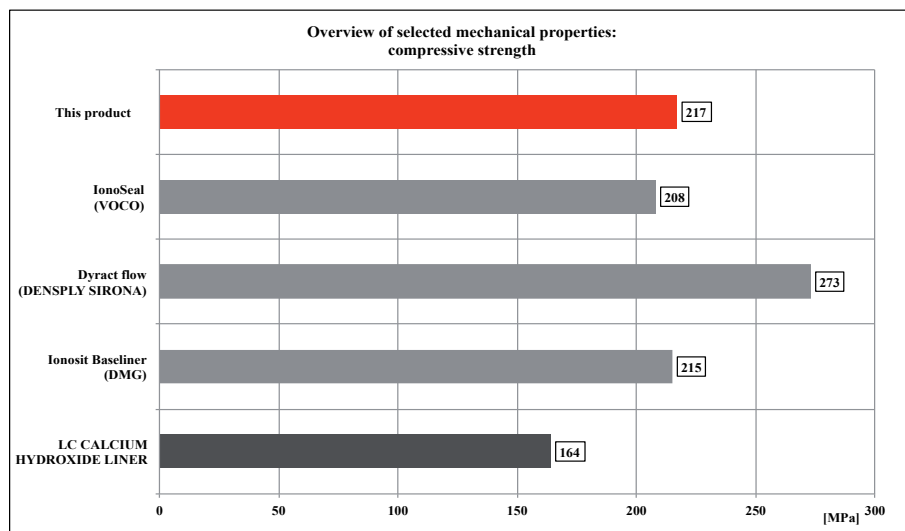


## Mechanical properties: compressive strength

The compressive strength is determined from a cylinder with a diameter of 4 mm and a height of 6 mm.



The measurement of compressive strength is a good prediction of clinical performance of filling. Like with all in-vitro tests it represents only a part aspect of the real clinical situation. Therefore the summary of all mechanical testing experiments have to be viewed as a prediction of the clinical situation.



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