



Dow Corning® TSSL Transparent Structural Silicone Laminate

Crystal Clear Bonding INTERIOR

Aesthetics

- Crystal clear connections
- Almost invisible bonding
- Uninterrupted glass designs

Features

- UV and hot water resistant
- Optically clear – color stable
- High strength silicone film
- No creep
- High movement capability – elastic bond
- Heat curing and odorless
- Bonding without deadload support



Interior glass connections



Bonding of handrail and railing systems

Dow Corning® TSSL is an optically clear and high strength silicone film for INTERIOR applications. Suitable for point connections and area lamination. Heat curing, elastic and strong - for in-factory bonding.

Technical Properties

Test method	Property	Result
ASTM D412	Elongation at max. tensile	250 %
ASTM D2204	Durometer Shore A Hardness	75
ASTM D412	Max tensile strength	~8.2 MPa
ASTM D3165	Shear Strength	~5.6 MPa

Benefits for Interiors

Dow Corning TSSL provides a tensile and shear strength, ideal for structural bonding applications. Its elasticity and high movement capability of >25% is beneficial for interior bonding as it is able to accommodate movement resulting from temperature variations, vibrations, dynamic loading of non-rigid structures, etc.

Applications

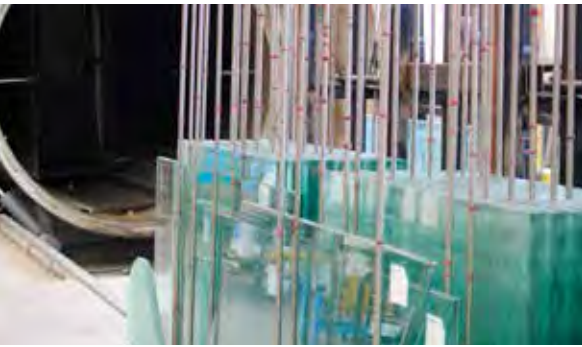
For structural point and area lamination of glass-glass or glass-metal connections of interior designs

- Glass beam lamination
- Decorative glass
- Railing systems
- Glass stairways
- Internal partition glass walls
- Glass shower cabinets

About the Technology

- Crystal clear 100% silicone film adhesive
- Film thickness: 1mm
- High strength: $\sigma_{DES} = 1,0$ MPa (dynamic)
 $\tau_{DES} = 0,6$ MPa (static)
- Heat curing at ~ 130°C
- Supplied in a cooled container on a roll in different lengths; width: 180mm; lengths from 1m to 20m – ready to apply

Can be applied by companies with glass lamination experience and autoclave facilities.



Heat curing in autoclaves



Glass beam lamination without mechanical fixation



Interior decorative and internal partitions

Contact us

Dow Corning has sales offices, manufacturing sites and science and technology laboratories around the globe. Find local contact information at dowcorning.com/ContactUs

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Page 1: AV25790, AV25788, AV25791, Page 2: AV25787, AV22057, AV25786

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