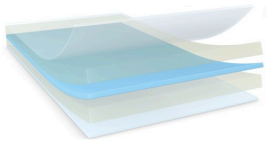
# tesa® L-tape 8698

## Product Information



200 µm translucent light-activated structural bonding tape

### Product Description

tesa® L-tape 8698 is a translucent light-activated structural bonding tape, especially suited for temperature-sensitive substrates. The curing process starts upon exposure to UV or blue light (standard 365 nm or 460 nm lamps). Before curing, tesa® L-tape 8698 has initial tack for easy application like a common PSA tape. After activation, there is an open time in which the substrates can be bonded. Thus, bonding of translucent and opaque substrates is possible. tesa® L-tape 8698 comes with a high immediate bonding strength which makes additional fixation after bonding unnecessary.

### Product Features

- High bonding performance, even on small bonding areas and thin design gaps
- Light-activation at room temperature, suited for temperature-sensitive substrates
- Structural bonding performance for stiffening applications
- Good tack and immediate bonding strength
- Bonding of translucent or opaque substrates
- PET backing to facilitate the die-cutting process

### Application Fields

tesa® L-tape is especially recommended for bonding various substrates and components within electronic devices that are sensitive to elevated temperatures:

- Component mounting in electronic devices
- Back cover and display module mounting
- Applications with stiffening requirements or small bonding areas and thin design gaps

## Technical Information (average values)

The values in this section should be considered representative or typical only and should not be used for specification purposes.

### Product Construction

- Backing: PET
- Type of adhesive: UV-curable
- Type of liner: PET
- Post-consumer recycled content of liner: 88 %
- Total thickness: 200 µm
- Color: yellow translucent

### Properties/Performance Values

- Bonding strength (push-out): 12.5 N/mm²

**For latest information on this product please visit http://l.tesa.com/?ip=08698**

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## Additional Information

tesa® L-tape is a reactive adhesive. It is activated by UV or blue light (wavelengths of 365 nm or 460 nm) and can be used for bonding of opaque or translucent substrates.

Bonding of opaque substrates

The open time of tesa® L-tape enables the bonding of opaque substrates like plastics and metals. tesa® L-tape can be activated by UV or blue light before or after bonding to the first substrate.

Activation before bonding: The die-cut of tesa® L-tape is activated by UV or blue light. The covering liner of the die-cut must be light-permeable (e.g., clear PET) to enable the activation of the tape. After activation the die-cut is bonded onto the first substrate. The second substrate is then bonded within 10 minutes by applying pressure (≥ 3 bar).

Activation after bonding to the first substrate: The die-cut of tesa® L-tape is bonded onto the first substrate. After activation by UV or blue light, the second substrate is bonded within 10 minutes by applying pressure (≥ 3 bar).

Bonding of translucent substrates

Translucent substrates such as clear plastics can be bonded before activation by UV or blue light. At least one substrate must be light-permeable to allow the activation of tesa® L-tape. After applying tesa® L-tape to the first substrate, the second substrate is bonded by applying pressure (≥ 3 bar). The bonded parts are then exposed to UV or blue light to start the curing of the adhesive.

Pre-lamination conditions

- Before curing, tesa® L-tape has initial tack and can be applied like a common PSA tape
- A pressure of ≥ 1 bar should be applied to ensure proper wet-out to the surface

Activation and bonding parameters

- Light source: lamp of 365 nm or 460 nm
- Light dose: 15-30 J/cm$^2$ at 365 nm or 30-50 J/cm$^2$ at 460 nm
- Recommended pressure: ≥ 3 bar
- Recommended bonding time: ≥ 10 s

Bonding strength values were obtained under standard laboratory conditions. (Material: SUS test specimen / bonding conditions: light dose: 40 J/cm$^2$ at 460 nm; pressure: 5 bar for 30 s). To reach maximum bonding strength surfaces should be clean and dry.

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## Disclaimer

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