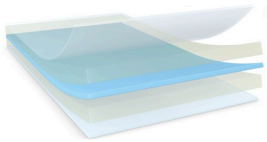
tesa® L-tape 8698

Product Information



200µm translucent light curable structural bonding tape

Product Description

tesa® L-tape 8698 is a translucent light curable structural bonding tape. The curing process starts upon exposure to light. tesa® L-tape can be activated by light at a wavelength of 365 nm or 460 nm. Before curing tesa® L-tape has initial tack for easy pre-lamination. 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 comes with immediate bonding strength which makes additional fixation after bonding unnecessary.

Product Features

- High bonding performance, even on small bonding areas and thin design gaps
- Tacky at room temperature
- Bonding of translucent or opaque substrates
- Immediate bonding strength after activation
- The PET backing facilitates the die-cutting process

Application Fields

tesa® L-tape is especially recommended for bonding of various substrates and components inside electronic devices which are sensitive to processing temperatures:

- Bonding of temperature sensitive substrates
- Component mounting in electronic devices

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	• Total thickness	200 µm
• Type of adhesive	UV-curable	• Color	yellow translucent
• Type of liner	PET		

Properties/Performance Values

• Bonding strength (push-out)	5 N/mm^2

Additional Information

tesa® L-tape is a reactive adhesive. It is activated by light at a wavelength of 365 nm or 460 nm. tesa® L-tape can be used for bonding of translucent or opaque substrates.

Bonding of opaque substrates

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

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Additional Information

The open time of tesa® L-tape enables the bonding of opaque substrates like plastics and metals. tesa® L-tape can be activated by light as an die-cut or already pre-laminated onto the first substrate.

Activation of pre-laminated parts: First remove the covering liner of tesa® L-tape and pre-laminate the tape onto the first substrate. The pre-laminated parts are then exposed to light. The second substrate is bonded by applying sufficient pressure (≥3 bar) within 5 min after activation.

Activation of die-cuts: First the die-cut of tesa® L-tape is activated by 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 pre-laminated onto the first substrate. The second substrate is then bonded by applying sufficient pressure (≥3 bar). Pre-lamination and bonding must take place within 5 min after activation.

Bonding of translucent substrates

Translucent substrates such as clear plastics can be bonded before activation by light. At least one substrate must be light-permeable to enable the activation of tesa® L-tape. First remove the covering liner of tesa® L-tape and pre-laminate the tape onto the first substrate. The second substrate is then bonded by applying sufficient pressure (≥3 bar). The bonded parts are then exposed to light to start curing of the adhesive.

Pre-lamination conditions

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

Bonding and curing conditions

- Light source: Lamp of 365 nm or 460nm
- Light dose: 20 - 50 J/cm² at 365 nm or 30 - 60 J/cm² at 460nm
- Activation time: ≥30 s
- Pressure: ≥3 bar
- Bonding time: ≥30 s

Bonding strength values were obtained under standard laboratory conditions. (Material: PC test specimen / bonding conditions: Light dose: 52 J/cm² at 460 nm; activation time: 45 s; 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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