

# DuploCOLL® 50001 LSE

Art. No. 11 07 21

**Double-sided pressure sensitive adhesive tape with a white polyethylene foam carrier and an aggressive synthetic rubber adhesive**

Product construction			
	Name	Colour	Thickness [mm]
Liner	Polyethylene paper	blue	approx. 0,16
Adhesive covered side	Synthetic rubber		
Carrier	Polyethylene foam	white	approx. 0,90
Adhesive open side	Synthetic rubber		
<b>Total thickness:</b>			approx. 1,06

## Product advantages

- Toluene-free
- Excellent initial adhesion (tack)
- Outstanding shear resistance, adhesive, tensile and splitting strength
- The compressible, permanently resilient foam carrier gives an extremely effective adhesion immediately after application even on rough and slightly uneven and structured surfaces.
- DuploCOLL® 50001 LSE absorbs vibration and compensates for different expansion coefficients of substrates that are joined.
- Good die-cutting properties
- Powerful even at high temperatures up to +80 °C

## Main application fields

- Bonding to non-polar surfaces like polyethylene and polypropylene
- Permanent bonding of decorative and functional trims, as well as emblems interior
- Mounting of hooks, holders and dispensers in the bathroom and kitchen areas
- Permanent fixing and self-adhesive preparation of various materials like metal, plastics, glass and different types of wood
- Bonding of point of sales displays and advertising material

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Product features		Applicability on	
Initial adhesion	● ● ●	Glass/Ceramics	● ● ●
Final adhesion	● ● ●	Wood	● ● ○
Dimensional stability	● ○ ○	High energy plastics: PVC, PC, ABS,...	● ● ●
Adhesion on even surfaces	● ● ●	Low energy plastics: PE, PP,...	● ● ●
Adhesion on rough surfaces	● ● ●	Metal	● ● ●
Ageing resistance	● ● ○	Paper/Cardboard	● ● ●
Weathering resistance	● ○ ○		
Chemical resistance	● ○ ○		
● ● ● very suitable    ● ● ○ suitable    ● ○ ○ suitable with reductions    ○ ○ ○ not suitable			

## Specific technical data\*

**Temperature range** -25 °C to +80 °C

**Softening point** +90 °C\*\*

**Peel Strength according to DIN EN 1939 after 24 hours storage at room temperature on different substrates:**

**Mirror backside (VOGELSANG)** 48 N/25 mm

**Polyethylene** 35 N/25 mm

**Furniture decor film (INTERPRINT PAP-0153)** 26 N/25 mm

**Stainless steel (A.F.E.R.A.)** 467 N/25 mm

**Shear Strength according to DIN EN 1943 after 4 hours storage at room temperature on:**

**Mirror backside (VOGELSANG)** > 150 N/625 mm<sup>2</sup>

**Breakaway Continuous Peel in accordance to FORD Spec. FLTM BU 109-02 after 24 hours storage at room temperature on different substrates:**

**Stainless steel (A.F.E.R.A.) / FORD-PVC bar** 117 N/12 mm

**Initial Adhesion (Tack) on Stainless steel (A.F.E.R.A.) at room temperature:**

**Immediately at RT** 42 N/950 mm<sup>2</sup>

**After 7 days storage at 50 °C** 35 N/950 mm<sup>2</sup>

\* Specific test results, statistically not approved.

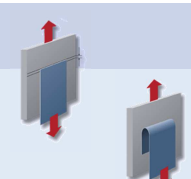
\*\* Reached temperature in a rising heat test according to the internal test method PM-211 following DIN EN 1943 at 0,5 kg strength, beginning at 30 °C, increasing of temperature every 30 minutes by 10 °C

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Technical Data		
<b>Shear strength</b>	on steel according to DIN EN 1943, edition 1996, at +23 °C +/- 2°C	250 N/625 mm <sup>2</sup>
<b>Peel strength</b>	on steel according to DIN EN 1939, edition 1996, at +23 °C +/- 2°C	60 N/25 mm



## Application

**Recommended application temperature** 18 °C to 35 °C

**Application guidelines** [www.lohmann-tapes.com](http://www.lohmann-tapes.com)

## Storage

Adhesive tapes should be stored at room temperature and normal humidity (50 – 70%).  
The storage stability is one year after delivery.

## Product presentation

Converted product	Rolls	Spools
<b>Width [mm]</b>		
<b>Length [m]</b>		
<b>Max. log width: 1260 mm</b>	Other dimensions, die-cuts and sheets on request	

For mechanical mounting of this adhesive tape we also offer a wide range of application devices.

## IMPORTANT NOTE

The physical characteristics contained in this data sheet represent typical or average values. All application related statements, information and recommendations herein are given to the best of our knowledge and practical experience. Many factors beyond our control and uniquely within buyer's knowledge and control can affect the use and performance of our tape in a particular application. EXCEPT AS EXPRESSIVELY AGREED IN WRITING WE DO NOT TAKE OVER ANY WARRANTY OR LIABILITY FOR THE SUITABILITY OR USABILITY OF OUR TAPES FOR CERTAIN PURPOSES AND APPLICATIONS RESULTING FROM BUYER'S SPECIAL USAGE OF THE TAPES. EXCEPT WHERE PROVIDED BY MANDATORY LEGAL PROVISIONS, WE WILL NOT BE LIABLE FOR ANY DIRECT OR INDIRECT MATERIAL OR IMMATERIAL LOSSES OR DAMAGES ARISING FROM THE USAGE OR APPLICATION OF OUR TAPES. Solely the buyer is responsible for determining the suitability of the specific tape for its use in connection with his method of application. Please consult our Technical Applications Department for specific advice.

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 **Lohmann**  
The Bonding Engineers