

DuploCOLL® 50 U

Environmentally friendly transfer tape with dispersion acrylic adhesive

Product construction

	Name	Colour	Thickness [mm]
Liner	Silicone paper	yellow	approx. 0,08
Adhesive	Dispersion acrylic		approx. 0,05
		Total thickness:	approx. 0,13

Product advantages

- The dispersion acrylic adhesive is distinguished by excellent initial adhesion (tack) and enters into the pores of materials on account of its soft consistency. The effective bonding surface therefore is increased by a multiple.
- Resistant to ageing and UV-radiation
- For foam lamination at room temperature only a slight laminating pressure is required to achieve perfect bonding.

Main application fields

- Making all kinds of foam self-adhesive
- Bonding of bituminous materials
- Mounting of rear boot linings (felt, carpet) in the automotive industry

Product features

Applicability on

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

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Specific technical data*	
Temperature range	-40 °C to +120 °C
Temperature range under stress	-40 °C to +80 °C**
Peel strength in accordance with DIN EN 1939 after 24 hours storage at room temperature on	
PVC foam	9 N/25 mm
Polyether foam	7 N/25 mm
Polyurethane foam	8 N/25 mm
Polyethylene foam	6 N/25 mm
Rubber	5 N/25 mm
Aluminium anodized	23 N/25 mm
Resistance to plasticizers: Peel strength in accordance with DIN EN 1939 after 7 days storage at 70 °C on	
Polyether foam	7 N/25 mm
Polyurethane foam	10 N/25 mm
Fogging value reflectometric in accordance with DIN 75201	98,3 %
Fogging value gravimetric in accordance with DIN 75201	< 0,2 mg
Odour value in accordance with VDA 270 after 24 h storage at room temperature	Perceptible, not disturbing

* Specific test results, statistically not approved.

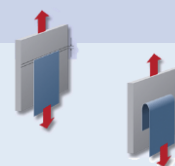
** Reached temperature in a rising heat test according to the internal test method PM-211 following DIN EN 1943 at 0,5 kg strength, beginning at 30 °C, increasing of temperature every 30 minutes by 10 °C.

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Technical Data

Shear strength	on steel according to DIN EN 1943, edition 1996, at +23 °C +/- 2°C	8 N/625 mm ²
Peel strength	on steel according to DIN EN 1939, edition 1996, at +23 °C +/- 2°C	20 N/25 mm



Application

Recommended application temperature	18 °C to 35 °C
Application guidelines	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				
Width [mm]	1000	1500			
Length [m]	200	200			
Max. log width: 1500 mm	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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