

DuploCOLL® 5110

Double sided adhesive mounting tape with low temperature resistant acrylic adhesive and foam carrier

Product construction

	Name	Colour	Thickness [mm]
Liner	Polyethylene film	yellow	approx. 0,10
Adhesive covered side	Modified acrylic		
Carrier	Polyethylene foam	white	approx. 1,00
Adhesive open side	Modified acrylic		
Total thickness:			approx. 1,10

Product advantages

- The adhesive is distinguished by its excellent cold shock resistance. Thus the application of DuploCOLL® 5110 is possible even at very low temperatures.
- Good initial and final adhesion
- High shear strength
- Good ageing resistance and extensive resistance to the influence of chemicals (domestic cleaning materials and polishing agents).
- The combination of a modified acrylic adhesive and a compressible polyethylene foam guarantees very good bonding even on rough and uneven surfaces.

Main application fields

- Mounting of building profiles (e.g. plaster profiles)
- Making extruded plastic profiles self-adhesive
- Used for door and window applications

Product features

Initial adhesion	● ● ●
Final adhesion	● ● ○
Dimensional stability	● ○ ○
Adhesion on even surfaces	● ● ●
Adhesion on rough surfaces	● ● ●
Ageing resistance	● ● ○
Weathering resistance	● ● ○
Chemical resistance	● ● ○
Resistance to plasticizers	● ● ○

Applicability on

Foam	● ○ ○
Rubber	● ○ ○
Fabric	● ● ○
Glass/Ceramics	● ● ●
Wood	● ● ●
High energy plastics: PVC, PC, ABS,...	● ● ●
Low energy plastics: PE, PP,...	● ● ○
Metal	● ● ●
Paper/Cardboard	● ● ●

● ● ● very suitable ● ● ○ suitable ● ○ ○ suitable with reductions ○ ○ ○ not suitable

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Specific technical data*

Temperature range	-40 °C to +90 °C
Temperature range in a rising heat test	-40 °C to +110 °C
Cold shock resistance	No loss of adhesion at -10 °C

ift test report 104 28492 dated 28 June 2004***:

Test of air impermeability and driving rain impermeability in accordance with DIN 18542, chapter 7.2 and 7.3

Air impermeability Air impermeable up to 600 Pa

Driving rain impermeability No water entering up to 600 Pa

DuploCOLL® 5110 has a μ -value of 9000.

This is consistent with a Sd-value of 81,0 m at a tape width of 9 mm and a Sd-value of 135,0 m at a tape width of 15 mm.

* Specific test results, statistically not approved.

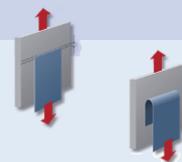
*** The data and results given relate solely to the described, tested object. Weathering and ageing phenomena have not been considered

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Technical Data

Shear strength	on steel according to DIN EN 1943, edition 1996, at +23 °C +/- 2°C	40 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	Spools
Width [mm]	> 6	on request
Length [m]	25	
Max. log width: 1260 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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