

DuploCOLL® 57005

Art. No. 11 754 O 02

Double sided adhesive foam tape with asymmetric adhesive construction and transparent PET liner

Product construction			
	Name	Colour	Thickness [mm]
Liner	Polyester film	transparent	approx. 0,05
Adhesive covered side	Pure acrylic		
Carrier	Polyethylene foam		approx. 1,00
Adhesive open side	Modified acrylic		
Total thickness:			approx. 1,05

Product advantages

- The modified acrylic adhesive on the open side is distinguished by its excellent resistance to cold. Thus the application is possible even at very low temperatures. It shows a high initial and final adhesion at high shear strength, good ageing resistance and extensive resistance to the influence of chemicals (domestic cleaning and polishing agents).
- The pure acrylic adhesive on the covered side is featured by maximum resistance to ageing, UV-radiation, weathering and plasticizers. The good initial adhesion (tack) offers a reliable bond immediately after application. Maximum final adhesion is reached after approx. 24 hours.
- DuploCOLL® 57005 is vibration-absorbing and compensates different coefficients of linear thermal expansion .

Main application fields

- Automated framing of Photovoltaik modules

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Open side:			
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

Covered side:			
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

Specific technical data*

Temperature range -40 °C to +100 °C**

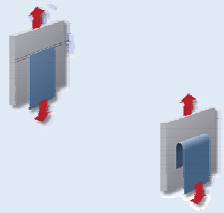
* Specific test results, statistically not approved.

** 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		
	Open side	50 N/625 mm²	
Peel strength	on steel according to DIN EN 1939, edition 1996, at +23 °C +/- 2°C		
	Open side	21 N/25 mm	
	Covered side	50 N/625 mm²	
	Covered side	22 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]			
Max. log width: 1060 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.

The physical characteristics contained in our data sheets represent typical or average values. They do not represent any warranties or guarantees and must not be used for technical specification purposes. All application related statements, information and recommendations herein are given to the best of our knowledge and practical experience. The buyer is responsible for determining the suitability of the specific tape for its intended use in connection with user's method of application. Please consult our Technical Applications Department for specific advice. Our general Term and Conditions of Sale apply, particularly with regard to warranty and liability.

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