Preliminary data sheet

A preliminary data sheet lacks sufficient measured values and/or production runs for statistically validated limits. Production repeatability may not yet be ensured.

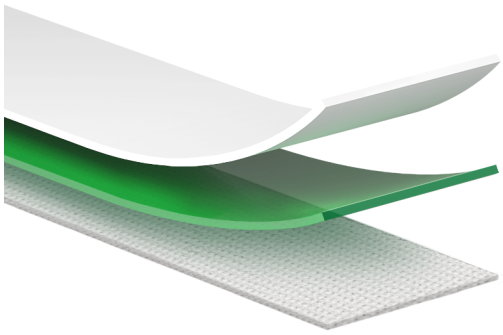
DuploMED® 22791

White 200 µm (7.87 mil) single-sided TPU nonwoven tape with pure acrylic adhesive (solvent-based)

Product features

- Skin friendly adhesive
- Good bonding strength on skin
- High conformability
- Good stretchability
- Good breathability
- Wear time of up to 14 days on skin
- Sterilizable by gamma radiation (25 oder 50 kGy) or ethylene oxide (35-55 °C)
- Biocompatibility (according to ISO 10993)

Product construction



Typical application fields

Medical

- Fixation of skin patches of wearables
- Overlay patch fixation for continuous glucose monitoring devices

Product construction

Component	Description	Color	Thickness (typical value)	
Liner	Siliconized paper	cream	103 µm	4.06 mil
Adhesive	Pure acrylic	transparent	∑ 200 µm	∑ 7.87 mil
Carrier	TPU nonwoven	white		

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Performance profile - Standard test data

Data show representative values and are not regularly observed by internal quality control. They are not permitted to be used for specification purposes.

Product property	Substrate	Representative value		According to	Test conditions
Peel adhesion (closed side) 	stainless steel	4,5 N/cm	41 oz/in	DIN EN ISO 29862	Dwell time: 1 day Temperature: 23 °C (73.4 °F) Test angle: 180 ° Tape width: 25 mm Test speed: 300 mm/min
	PE	1 N/cm	9 oz/in		
Liner release 			0,3 N/25 mm	DIN EN ISO 29862	Test angle: 180 ° Tape width: 25 mm Test speed: 300 mm/min Test temperature: 23 °C
Static shear strength 	stainless steel		6 N/625 mm²	internal test method	Test temperature: 23 °C Test time: 4 Hours Bonding area: 625 mm²

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Performance profile - Extended test data

Product property	Representative value	According to	Test conditions
Tensile Strength	10 N/15 mm	ISO 29073-3	Tape width: 15 mm Test speed: 100 mm/min Temperature: 23 °C Test direction: machine direction
Elongation	550 %	ISO 29073-3	Tape width: 15 mm Test speed: 100 mm/min Temperature: 23 °C Test direction: machine direction
Tensile Strength	8 N/15 mm	ISO 29073-3	Tape width: 15 mm Test speed: 100 mm/min Temperature: 23 °C Test direction: cross direction
Elongation	500 %	ISO 29073-3	Tape width: 15 mm Test speed: 100 mm/min Temperature: 23 °C Test direction: cross direction
MVTR (Moisture Vapour Transmission Rate)	500 g/m²/24h	DIN EN 13726-2	Temperature: 37 °C Relative humidity: 15 % Test time: 1 Day

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Storage and shelf life

The shelf life of DuploMED® 22791 is 2 years after delivery. The duration indicated requires storage in original packaging at 15.0 °C to 30.0 °C (59 °F to 86 °F), normal humidity (30-70 % RH) and absence of UV radiation.

Delivery forms

DuploMED® 22791 is produced as log roll in a usable width of 1,220 mm (48.03 in). It can be converted in different delivery forms upon request:



Roll



Diecut

Service temperature

We recommend the use of DuploMED® 22791 in a range from 18 °C (64.4 °F) to 40 °C (104 °F). The temperature resistance depends on the loads and external influences on the adhesive bond.

Customized production technologies

From adhesive development to automation-ready solutions – Lohmann offers high-tech bonding processes from a single source. Our integrated value chain ensures efficiency, flexibility and reliable quality across every step: coating, laminating, converting, precision die-cutting and more. We support you not only with custom die-cuts, rolls, spools or sheets in various formats, but also with application tools and detailed engineering for seamless process integration – whether manual, semi-automatic or fully automated. Discover our full value chain: https://lohmann-tapes.com/production-technologies

Use instructions

For general information about the handling of pressure sensitive adhesive tapes, please go to https://lohmann-tapes.com/general-usage-instruction

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Biocompatibility

Customers should perform their own assessment to ensure the final product is in compliance with all applicable Medical Device regulatory requirements. To support the assessment, and upon request, Lohmann can provide, where available, biocompatibility testing results (ISO10993) specific to either the product supplied by Lohmann or its' constituent components.

Responsible solutions in every bond

For more information on our path to a sustainable vision, please go to: https://lohmann-tapes.com/sustainability

Disclaimer

The physical characteristics contained in this data sheet represent typical or average values. They explicitly do not constitute product specifications. 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. We refer to DIN EN ISO 21368:2024-10. Please consult our Technical Applications Department for specific advice.

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For further information
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