



Fact Sheet: MicroClimate

Developed as a highly breathable yet durable range of coated fabrics, Dartex® MicroClimate has upwards of 20% moisture vapour transfer rate (MVTR) while remaining fully waterproof for patient comfort.

Key benefits

Dartex® MicroClimate fabrics can be up to **TEN TIMES** more breathable than a standard polyurethane coating:

Superior breathability – the special polyurethane coating, specifically designed to be one of the most breathable fabrics available for healthcare & medical applications, has been shown in laboratory testing to move moisture away quicker from the support surface interface¹

Higher levels of breathability leads to:

- **Less moisture** at the skin / support surface interface
- **Increased patient comfort** as the skin is dryer and cooler

PVC FREE

Keeping vulnerable skin cooler for longer could help reduce the occurrence of pressure ulcers.

- **Stretch & Recovery** – essential for pressure redistribution and the prevention of avoidable pressure injuries
- **Easily cleaned** – either wipe clean or machine washable.

CHOOSE THE RIGHT FABRIC FOR THE RIGHT APPLICATION

Highly breathable fabrics like Dartex® MicroClimate are great for dynamic low air loss mattress systems; where the combination of a highly breathable cover with movement of dry air beneath the cover enables better moisture management and can improve the performance of the whole system.

Recommended cleaning

GENERAL GUIDANCE

Always follow the manufacturer's washing instructions. Ask for a copy of the Dartex® Support Surfaces cleaning guidance for further information on compatible chemicals.

- **Protect** by removing spillages promptly with an absorbent dry cloth. General soiling can be handled with a microfibre cloth and tepid, soapy water (non alkaline) to remove the spillage
- **Rinse** with clean water and dry with a soft absorbent cloth. Bodily fluids should be removed promptly (within 15 minutes) with cold water then cleaned as above
- **Dry** thoroughly before returning to use or storage.

Why choose Trelleborg Engineered Coated Fabrics?

We are specialist manufacturers of polyurethane-coated technical textiles for medical applications.

All PU fabrics provide a fluid-proof, virus-proof barrier for infection control. Our

industry leading Dartex® range combines unique stretch and recovery capabilities with breathable, high quality PU coatings, to provide pressure redistribution² around the world.

Contact our technical sales team for specifications and more information:

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- 📄 TrelleborgHM
- 📱 trelleborg-healthcare-&-medical

	2-way & 4-way stretch No delamination
	71°C & 95°C Machine washable Dyed and Scour fabrics available No delamination
	Bio-compatibility (ISO10993-5) Cytotoxicity = < Grade 1 (ISO10993-10) Skin Irritation – classed as non-irritant; Skin Sensitisation – considered to be non-sensitiser
	Eco flame retardant: Crib 5 BS7175, sources 0, 1, 5 conforms when used with a suitable combustion modified foam RoHS Directive 2011/65/EU compliant
	Fungistatic Contains an anti-fungal / anti-microbial agent to control microbial deterioration; The products do not contain any nano materials
	MVP – Advanced (g/m ² /24hours) Payne Cup ASTM D1653: 700-2000 ASTM E96 method BW: 450-5000
	Waterproof Water penetration resistance/ Hydrostatic head (kPa) 35 minimum; typical 100 (BS3424-26)
	Weldable Polyester and Nylon fabric options available
	Wipe clean For infection control
	UV Printable Innovative, no odour ink that does not crack when stretched – 5 colour print process

References:

¹ Haxby, R; Pearce, K; Williams, C (2019) Are you sitting comfortably? Studies into Dartex® polyurethane-coated fabric vs. vinyl (PVC). Available for download <https://www.trelleborg.com/en/engineered-coated-fabrics/industries/healthcare-and-medical>
² Haxby, R; Pearce, K; Turton, T; Scott, I; Williams, C. (2019). Support Surface Cover & Core: Working Together in Sweet Harmony. Available for download <https://www.trelleborg.com/en/engineered-coated-fabrics/industries/healthcare-and-medical>