Application Areas:

Reactive PUR hot melt adhesive formulated for gravure dot-coating lamination of technical textiles, outdoor functional sportswear, medical gowns, and military apparel with breathable membranes (PTFE, TPU, PES).

Preserves fabric breathability and soft textile drape (soft handle) while providing extreme resistance to repeated high-temperature domestic washing (up to 95 °C) and dry cleaning. Not intended for furniture or wood.

Characteristics & Directions for Use:

Delivers precise dot transfer on engraved rollers without strike-through or bleeding into delicate face fabrics.

Low operating temperature (110 – 130 °C) protects heat-sensitive ultra-thin functional membranes from thermal degradation.

Processing Parameters:

Process Parameter	Specification / Condition
Recommended Operating Temp	110 – 130 °C (Engraved roller: 115 – 125 °C)
Viscosity (Brookfield @ 120°C)	15,000 ± 3,000 mPa·s (Spindle 27 / 20 rpm)
Application Method	Engraved Roller / Gravure Dot Transfer
Coat Weight	8 – 18 g/m² (Dot matrix coating)
Open Time Window	approx. 20 – 35 seconds
Line Speed	20 – 60 m/min (Textile laminating lines)

Technical Data:

Technical Parameter	Specification Value
Chemical Base	Moisture-Curing Reactive Polyurethane (PUR)
Density (@ 20°C)	approx. 1.16 ± 0.02 g/cm³
Softening Range / MFT	> 160 °C After Full Chemical Cure
Laundering Resistance	Up to 95 °C Machine Wash & Dry-Clean Resistant
Cured Elasticity	High Elastic Recovery (> 350% elongation)
Appearance & Color	Transparent / Off-White Solid Block

Performance Ratings:

Breathability Retention		**99 / 100**
Washing & Dry-Clean Resistance		**99 / 100**
Soft Drape / Textile Hand Feel		**98 / 100**
Low-Temp Membrane Protection		**96 / 100**
Dot Transfer Precision		**97 / 100**

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Cleaning:

Clean engraved roll while hot with Mayer PUR Flushing Wax (MT-CL 700).

Storage & Shelf Life:

Store in moisture-proof packaging at 15 – 25 °C. PROTECT FROM MOISTURE! Shelf life is 12 months.

Packaging:

2 kg Aluminum Cartridges / 20 kg Pails / 200 kg Drums.

Important Remarks & Legal Notice:

Approved for breathable textile membrane laminations.

Pre-test water-repellent (DWR) fabric finishes.

Mayer Adhesive Engineering & Quality Standards:

ISO 9001:2015 certified QA.

OEKO-TEX standard testing support.

100% solvent-free green textile chemistry.

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