



Technical Data Sheet



SmartRolls® 4000 Series UnderStencil Wiping Rolls

Product Description

4000 Series is a hydroentangled blend of 54% cellulose / 46% polyester cleanroom grade wiping roll for cleaning under stencils between prints. This material effectively removes residual adhesives, solder pastes and fluxes, with or without solvents. Using our high quality wiping roll will help prevent many common production defects like bridging, smearing, solder balls, and other problems associated with circuit board printing. Due to its excellent airflow characteristics, this material will not compromise vacuum power, optimizing aperture cleaning performance. Made from Sontara® fabric, the one material that does it all. 4000 Series UnderStencil Wiping Rolls are the standard in wiping technology!

Hydroentanglement: also known as spunlacing, entangles the fibers to give strength to the web. It uses fine, high-pressure jets of water to strike a web to intermingle the fibers, resulting in the bonded fabric being a nonwoven. Nonwovens made by this method have high fabric integrity.

Custom Option: we offer custom roll configurations to maximize production requirements and improve the wiping process. Eliminate excess waste, minimize contaminated solid waste and reduce hazardous disposal fees.

Static Dissipative ESD Safe Film: SmartRolls are shrink wrapped in a protective static dissipative ESD safe film with superior static control capabilities. Our static dissipative ESD safe film has the lowest surface resistivity, that remains at a constant level over extended periods. This transparent film is amine-free and has inherent antistatic properties which provide permanent product stability. Its contact clarity allows easy identification of the packaged contents. Made of top grade polyolefin resins, is polycarbonate compatible, completely recyclable and contains no harmful substances. Our shrink film is a light packaging concept that is environmentally safe and limits post-consumer waste.

Features

Absorbent: highly absorbent and fast wicking ~ wicks consistently across the material to ensure a more productive clean.

Strong: advanced structure of exceptional strength, even when wet ~ tear and shred resistance raises MTBF (mean time between failures) and reduces operator intervention, increasing efficiency.

Non-abrasive: soft texture, won't scratch surfaces, wet or dry.

Low Particle: extremely low in soluble extractables and metallic ions - no binders, starches or thermal bonding techniques. The absence of binder or surface modifiers minimize contamination.

ESD Packaged: each roll is shrink wrapped in protective film.

Chemical Tolerance: won't break down, resistant to all current Surface Mount solvents.

Basis Weight

(oz/yd ²)	1.50
(g/m ²)	50.8
ASTM Test	D3776

Composition

Polyester %	46
Wood pulp %	54

Thickness

(mils)	12
(mm)	0.30
ASTM Test	D1117

Grab Tensile / Breaking Strength

MD (lbs)	28.0
N	125.0
XD (lbs)	16.0
N	71
ASTM Test	D5034

Packaging

Rolls Per Case	15
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Refer to website or contact factory for part number information.

Case Weight & Dimensions

Refer to website or contact factory for information.

Availability

Products are available through global sales and a nationwide network of distributors.

Environmental Policy

As a leading manufacturer and supplier of SMT production supplies; INJ is committed to providing high quality products and services in a manner that does not impact upon, but enhances the environment.