PRT S2091N / PRT S20181N

Cleanroom wipers
for cleanroom class ISO 4 - 5

Fabric benefits and specification

- The yarn is made of synthetic polyester and nylon
- Unique knit construction gives it maximum surface coverage for uniform wiping
- Soft, tactile properties for wiping delicate objects like optics

Material	Polyester 77% / Nylon 23%
Structure	75 De / 48 fila 16 segment
Weight	> 175 g/m²
Thickness	0.43mm +/- 0,05mm
Width	58 inch +/- 2 inch

Product features

- Minimum release of fibers and particles by 4 sealed-border by thermal heat
- Washed by 17Ohm de-ionized water and packaged in class 10 cleanroom environments
- All processes are strictly controlled under ISO9001/14001
- Designed for use in ISO class 4-5 cleanroom environments

Applications

- Used for ultra-high accumulation semiconductor, TFT-LCD, BLU process
- Suited for a precise optical machinery and tools
- Used for cleaning a delicate process in critical cleanroom
- Ideal for cleaning an edge and a corner in equipment and tools

Ordering information

Article-number:	Sizes:	Packaging unit
RTPRTS2091N100	9” x 9”	100 pcs. / bag
RTPRTS20181N	18” x 18”	10 pcs. / bag

Product specification

Basic test items for PRT S2091N, 9” x 9”

	Value	Unit	Test method
Weight	> 9,500 > 175	g / piece g / m²	PTM-02 measures the mass per unit area and per sheet of a wiper
Thickness	0,35 - 0,45	mm	PTM-03 measures the thickness of a wiper
Absorbency Capacity 1	> 1,70	ml / g	PTM-04-1 measures the volume of liquid sorbent per unit gram of a wiper
Absorbency Capacity 2	> 380	ml / m²	PTM-04-2 measures the volume of liquid sorbent per basic unit m² area

Contamination test items

Particle release into air (> 0,3 µm)	< 250	counts / ft³	PTM-06 measures how many particles can potentially be generated when handling a dry wiper. The results are expressed as particles per volume (determined time is 60 sec.)
Particle release into liquid (> 0,5 µm)	547	counts / cm²	Test based on IEST-RP.CC004.3, section 6.1.3: Wipes will be mixed with ultrapure water and will be shaken biaxially for 5 min. After the water will be analyzed by Liquid Particle Counter
Lint release (> 100 µm)	< 5	counts / piece	PTM-08 measures microscopically the into a filter released fibres after ultrasonic bath for determined minutes. The result is expressed as fibres > 100 µm
Positive ION (Na, Ca)	< 0,50	ppm	IEC-AES / IC Entrust ion test to the authorized facilities periodically. The results are stated in parts per million.
Negative ION (Cl, PO_4, SO_4)	< 0,50	ppm	

PTM procedures are available upon request

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