MiracleWipe® Wipers

Strong, highly adsorbent nylon wipers for general wiping in Class 100 to 1,000 environments

Description

MiracleWipe® is made from 100% continuous-filament nylon. The double-knit construction, texture and body of the nylon filament give the wiper excellent softness and superior strength. MiracleWipe® is cleanroom laundered and processed to provide an ultraclean, highly adsorbent wiper ideal for critical cleanroom applications.

Features

- 100% synthetic fiber (double-knit nylon)
- Continuous-filament, no-run interlock pattern
- Laundered and packaged at ITW Texwipe's Cleanroom Products Manufacturing Center
- Solvent-safe Bag-Within-A-Bag® cleanroom packaging
- Statistical quality control

Benefits

- Excellent tensile strength, elasticity and durability
- Ultralow particulate generation and low extractable levels help prevent product and cleanroom contamination
- Soft, nonabrasive surface
- Lot-to-lot traceability

Applications

- Superior for spill control and general wiping in critical environments
- Excellent for cleaning and polishing metallic and nonmetallic magnetic media disk surfaces
- Ideal for cleaning sensitive optical and photomask surfaces
- Abrasive surface cleaning

Products

TX Number	Description	Packaging
TX4004	MiracleWipe® 4" x 4" nominal (10 cm x 10 cm) nylon wipers	600 wipers/bag, 4 inner bags of 150 wipers; 8 bags/case
TX4009	MiracleWipe® 9" x 9" nominal (23 cm x 23 cm) nylon wipers	150 wipers/bag, 3 inner bags of 50 wipers; 8 bags/case
TX4012	MiracleWipe® 10" x 12" nominal (25 cm x 31 cm) nylon wipers	200 wipers/bag, 4 inner bags of 50 wipers; 4 bags/case
TX4018	MiracleWipe® 14" x 18" nominal (36 cm x 46 cm) nylon wipers	100 wipers/bag, 2 inner bags of 50 wipers; 4 bags/case

ITW Texwipe®

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MiracleWipe® Wipers

TX4004 TX4009 TX4012 TX4018

Performance Characteristics

Property	Typical Value	Test Method*	
Basis weight	170 g/m²	TM2:	The Determination of Basis Weight
Absorbency			
Sorptive capacity	530 mL/m²	TM3:	Absorbency and Rate of Absorbency of Wipers
Sorptive rate	3 seconds	TM3:	Absorbency and Rate of Absorbency of Wipers
Surface resistivity	1.7 x 10^{12} ohms (1.7 x 10^{13} ohms/sq)	TM14:	The Determination of Surface Resistivity of Fabrics and Other Thin, Flat Materials (Adapted from EOS/ESD-S11.11-1993)

Contamination Characteristics

Property	Typical Value	Test Method*	
Particles and fibers			
Particles 0.5-5.0 µm	22 x 10^{6} particles/m²**	ASTM E 2090-00:	Standard Test Method for Size-Differentiated Counting of Particles and Fibers Released from Clean Room Wipers Using Optical and Scanning Electron Microscopy
5.0-100 µm	625,000 particles/m²**	ASTM E 2090-00:	Standard Test Method for Size-Differentiated Counting of Particles and Fibers Released from Clean Room Wipers Using Optical and Scanning Electron Microscopy
Fibers: >100 µm	5,000 fibers/m²**	ASTM E 2090-00:	Standard Test Method for Size-Differentiated Counting of Particles and Fibers Released from Clean Room Wipers Using Optical and Scanning Electron Microscopy
Nonvolatile residue			
IPA extractant	0.35 g/m²	TM1:	Matter Extractable from Wipers and Other Materials
DIW extractant	0.67 g/m²	TM1:	Matter Extractable from Wipers and Other Materials
Ions			
Sodium	0.22 ppm	TM12:	The Determination of Ions in Wipers and Other Materials by Capillary Ion Analysis (CIA) Technique
Potassium	0.75 ppm	TM12:	The Determination of Ions in Wipers and Other Materials by Capillary Ion Analysis (CIA) Technique
Chloride	3.00 ppm	TM12:	The Determination of Ions in Wipers and Other Materials by Capillary Ion Analysis (CIA) Technique

Note: The data in this table represent typical analyses of these wipers at the time of publication. These are not specifications. Texwipe continually refines both its processes and its products.

*Texwipe test procedures available upon request. ASTM procedure available for purchase at www.astm.org.

**ASTM E 2090 provides a more sensitive test and a more complete measurement of particles and fibers than other standard test methods.

Effective: September 2000