

Vectra® Honeycomb® 10 Wipers

Premium sealed-border polyester wipers with unique texture for grit and residue removal

ITW Texwipe's proprietary Vectra® Process cleans the wipers more efficiently than any cleanroom laundry



Description

Vectra® Honeycomb® 10 is a sealed-border, double-knit, 100% continuous-filament polyester wiper. All four edges are thermally sealed to prevent particle and fiber release. Vectra® Honeycomb® 10 features a unique surface texture that enables grit encapsulation and removal during the cleaning process. It has excellent sorbency in addition to good particle and fiber control.

Features

- 100% synthetic fiber (continuous-filament, double-knit polyester)
- Thermally sealed border
- Unique surface differential, two distinctly different engineered surfaces
- Laundered and packaged at ITW Texwipe's Cleanroom Products Manufacturing Center
- Solvent-safe Bag-Within-A-Bag® cleanroom packaging

Benefits

- Facilitates grit and residue capture and subsequent removal with unique surface construction
- Assures cleanliness with ultralow levels of particles, ions and extractables
- Resists abrasion under rigorous use
- Helps prevent product and cleanroom contamination by minimizing fiber and particle release
- Lot-to-lot traceability
- Vectra® Process for the cleanest most consistent wipers

Applications

- Engineered for use in ISO Class 3–4 cleanroom environments where particle and residue removal are absolute requirements
- Particle removal on uneven as well as smooth surfaces
- Ideal for removing broken wafer fragments or process residues

Products

TX Number	Description	Packaging
TX1060	Vectra® Honeycomb® 10 9" x 9" nominal (23 cm x 23 cm) double-knit polyester, sealed-border wipers	100 wipers/bag, 2 inner bags of 50 wipers; 10 bags/case



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Vectra® Honeycomb® 10 Wipers

TX1060

Performance Characteristics

Property	Typical Value	Test Method*
Basis weight	164 g/m ²	1, TM20
Absorbency		
Sorptive capacity	420 mL/m ²	1, TM20
Sorptive rate	0.5 seconds	1, TM20

Contamination Characteristics

Property	Typical Value	Test Method*
LPC		
≥ 0.5 µm	4.0 x 10 ⁶ particles/m ²	1, TM22
Particles and fibers		
Particles 0.5-5.0 µm	.76 x 10 ⁶ particles/m ²	1, 2, TM22
5.0-100 µm	85,000 particles/m ²	1, 2, TM22
Fibers: >100 µm	22 fibers/m ²	1, 2, TM22
Nonvolatile residue		
IPA extractant	0.03 g/m ²	1, TM1
DIW extractant	0.004 g/m ²	1, TM1
Ions		
Sodium	0.3 ppm	1, TM18
Potassium	0.07 ppm	1, TM18
Chloride	0.04 ppm	1, TM18

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

*Test Methods

- 1 – “Evaluating Wiping Materials Used in Cleanroom and Other Controlled Environments,” IEST-RP-CC 004.3, Institute for Environmental Sciences and Technology, Rolling Meadows, IL 2004; www.iest.org.
- 2 – “Standard Method for Size-Differentiated Counting of Particles and Fibers Released from Clean Room Wipers Using Optical and Scanning Electron Microscopy,” E2090-00, ASTM International, West Conshohocken, PA, 2000; www.astm.org.
- TM – Refers to ITW Texwipe Test Method — available upon request, contact ITW Texwipe Customer Service at www.texwipe.com for a copy.

ITW Texwipe is the only wiper company to be ISO 9001:2000, 13485:2003, 14001:2004 and OHSAS 18001:1999 registered.