

SINCE 1925

KEYSTONE

SAFETY ↔ CLEANROOM PRODUCTS

PURECLEAN™

1421B TYVEK® AUTOCLAVABLE MUFFS



PureClean™ Autoclavable Muffs are made from 1421B DuPont™ Tyvek®, which is a new grade of uncoated, untreated, flexible Tyvek® material specifically designed for pharmaceutical use in steam sterilization applications.

Keystone's PureClean™ Tyvek® material does not have a water soluble antistat agent applied to it during its manufacturing process.

- Uncoated Tyvek® for maximum breathability during sterilization without the chance of residue deposits on equipment, post sterilization
- Conveniently covers flasks, beakers, containers, media bottles, valves, pipes and hoses
- Prevents dust and other particulate from entering orifices of any size
- Breathable, while providing a superior barrier post sterilization
- Tyvek® has the highest microbial barrier properties among all steam sterilization wrapping compatible materials
- Manufactured and packaged in a ISO Certified Cleanroom
- Eliminates Autoclave Tape Residue
- Latex-and talc free rubber elastic
- Lint-Free

MATERIAL SPECIFICATIONS:

Property	Comparable standard test method	Units	Nominal value (range) Tyvek® 1421B
Preliminary product specifications (English units)			
Basis weight	ASTM D3776 ¹	oz/yd ²	1.22 [1.16–1.26]
Delamination	ASTMD2724 ²	lb _f	0.08 [>0.03]
Gurley Hill porosity	TAPPI T460 ³	sec/100 cc	20 [8–36]
Preliminary product specifications (metric units)			
Basis weight	ASTM D3776 ¹	g/m ²	41 [39–43]
Delamination	ASTMD2724 ²	N	0.36 [>0.13]
Gurley Hill porosity	TAPPI T460 ³	sec/100 cc	20 [8–36]

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Property (Continued)	Comparable standard test method	Units	Typical value Tyvek® 1421B
Preliminary miscellaneous properties (English units)			
Thickness	EN ISO 534 ¹	mils	6 (0.15mm)
Tensile strength, MD	EN ISO 1924-2 ²	lb _f /in	7.6
Tensile strength, CD	EN ISO 1924-2 ²	lb _f /in	6.4
Elmendorf tear, MD	ASTM D1424	lb _f	2.4
Elmendorf tear, CD	ASTM D1424	lb _f	1.9
Hydrostatic head	AATCC TM 127 ³	in H ₂ O	44
Elongation, MD	EN ISO 1924-2 ²	%	10
Elongation, CD	EN ISO 1924-2 ²	%	15
Puncture resistance	EN 863 ⁴	lb _f	2.7
Mullen burst	ISO 2758	psi	53
Bendsten air permeability	ISO 5636-3 ⁵	mL/min	741
Microbial barrier	ASTM F1608	LRV	~4

MD = machine direction; CD = cross direction

1. Surface 2 cm², pressure 50 kPa.

2. Modified for speed, sample width 2.54 cm (1 inch).

3. Rate of use: 60 cm H₂O/min.

4. Modified for conditioning.

5. Electronic device.

Property	Comparable standard test method	Units	Typical value Tyvek® 1421B
Preliminary miscellaneous properties (metric units)			
Thickness	EN ISO 534 ¹	µm	152
Tensile strength, MD	EN ISO 1924-2 ²	N	34
Tensile strength, CD	EN ISO 1924-2 ²	N	28
Elmendorf tear, MD	ASTMD1424	N	10.6
Elmendorf tear, CD	ASTMD1424	N	8.5
Hydrostatic head	AATCC TM 127 ³	cm H ₂ O	112
Elongation, MD	EN ISO 1924-2 ²	%	10
Elongation, CD	EN ISO 1924-2 ²	%	15
Puncture resistance	EN 863 ⁴	N	12
Mullen burst	ISO 2758	kPa	365
Bendsten air permeability	ISO 5636-3 ⁵	mL/min	741
Microbial barrier	ASTM F1608	LRV	~4

MD = machine direction; CD = cross direction

1. Surface 2 cm², pressure 50 kPa.

2. Modified for speed, sample width 2.54 cm (1 inch).

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KEYSTONE PART NUMBER	Fits Openings (Diameter)
10TK03	1.27 cm to 2.5 cm
10TK04	2.54 cm to 4.5 cm
10TK05	4.45 cm to 6.4 cm
10TK07	6.35 cm to 10.2 cm
10TK08	8.89 cm to 12.1 cm
10TK09	10.16 cm to 14.0 cm
10TK12	13.97 cm to 20.3 cm
10TK16	20.32 cm to 30.5 cm