

# BIOCLEAN™ STERILE BAGS S-BBPN

## About

Manufactured in a cleanroom environment from ultraclean low-density polythene. Because the material is free of additives, there is no contamination from particulates, surface leaching chemicals or outgassing. For general-purpose use, ideal as waste bags, transportation bags or storage bags. BioClean Sterile Bags are suitable for use within the pharmaceutical, medical, semiconductor, aerospace and many other industries.

## Specifications

**MATERIAL:**

Polythene

**THICKNESS:**

See 'To Order' Details

**COMPATIBILITY:**

ISO Class 6

**COLOUR:**

Clear

**STERILIZATION:**

Gamma irradiation

## Features

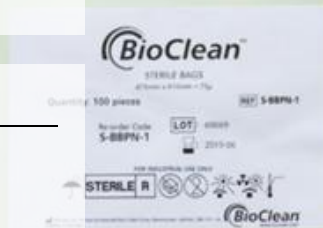
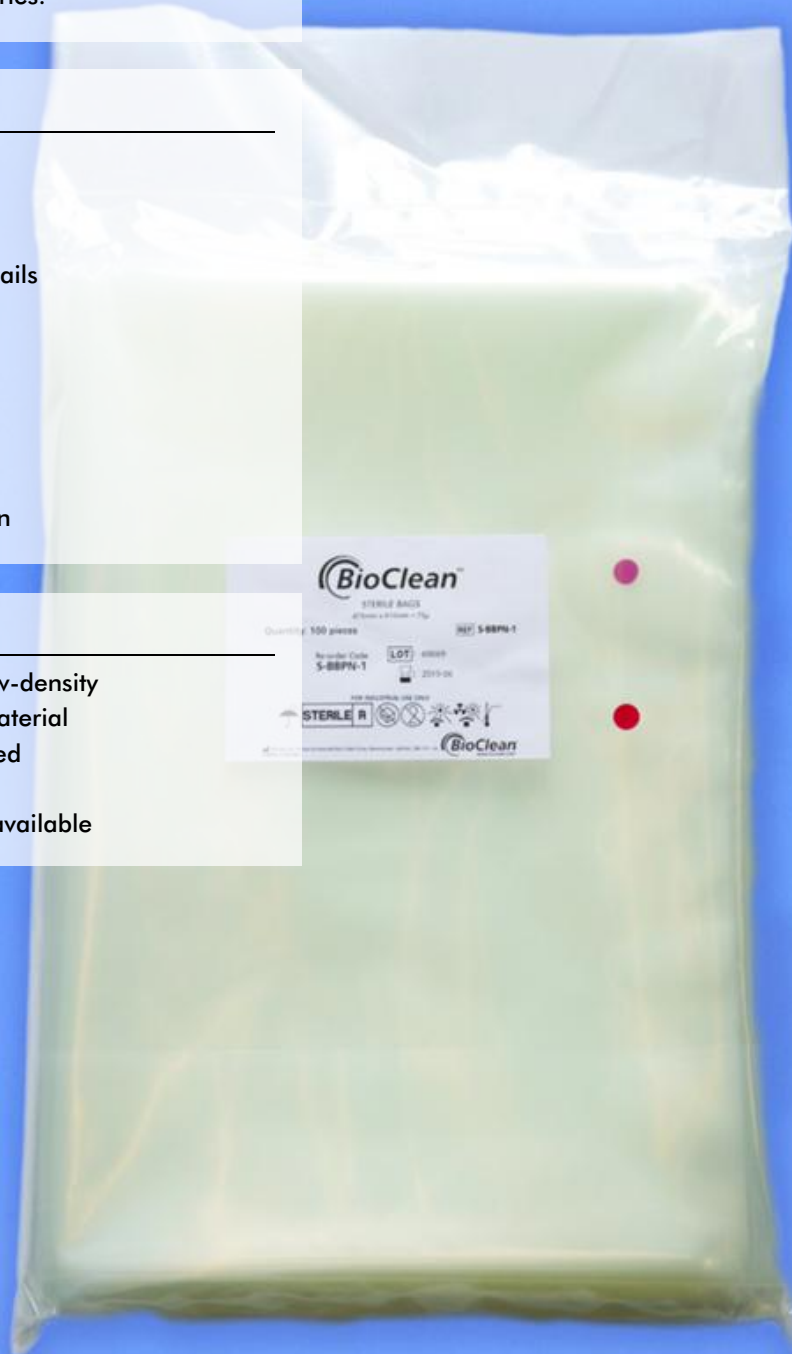
- Ultraclean & low-density
- Additive-free material
- Gamma sterilized
- Double bagged
- Range of sizes available

**ULTRACLEAN**

**LOW-DENSITY**

**ADDITIVE-FREE**

**RANGE OF SIZES**



## Quality Standards

- Manufactured in a facility holding ISO 9001:2008 certification
- Manufactured and processed in an ISO Class 6 cleanroom

## Sterilization

Method: Gamma irradiation  
Minimum Dose: 25kGy  
Sterility Assurance Level:  $10^{-6}$

## Shelf Life & Storage

Five (5) years from date of manufacture.  
Store in a dry, cool place (<40°C) away  
from direct sunlight and fluorescent light.

## Physical/General Properties

Property Measured	Method Used	Units of Measurement	Typical Value
Granule Properties			
Melt Index	ASTM D 1238	g/10min	0.75
Density	ASTM D 2839/D1505	g/cm <sup>3</sup>	0.923
Crystallization Point	ASTM D3418	°C	96
Peak Melting Temperature	ASTM D3418	°C	109
Slip/Antiblock Additive	None		
Antistatic Additive	None		
Film Properties			
Film Thickness	μm		60 – 200 (+/- 10% Avg)
Tensile Strength at Break*	ASTM D882	MPa	MD: 24, TD: 23
Elongation at Break*	ASTM D882	%	MD: 370, TD: 570
Elmendorf Tear Strength*	ASTM D1922	g/μm	MD: 4, TD: 4
Puncture Resistance**	FTMS 101C 2065-1	N	43.4
1% Secant Modulus*	ASTM D882	MPa	MD: 220, TD: 260
Haze	ASTM D1003	%	7
Gloss, 60° angle	ASTM D2457	%	9
MVTR	DIN 54122-2-D	g/m <sup>2</sup> /24 hrs / bar at 90% RH and 38°C	2.77
OTR	DIN 53380-3	cm <sup>3</sup> / m <sup>2</sup> /day/bar	1059

## Physical/General Properties Continued...

Cleanliness Properties							
Particulates	Liquid Particle Count		>0.30 $\mu\text{m}$	<20.0 per $\text{cm}^2$			
Particulates	Liquid Particle Count		>0.50 $\mu\text{m}$	<10.0 per $\text{cm}^2$			
Particulates	Liquid Particle Count		>1.00 $\mu\text{m}$	<3.0 per $\text{cm}^2$			
Ion Chromatography							
Anions	F	Cl	Br	NO <sub>3</sub>	NO <sub>2</sub>	SO <sub>4</sub>	PO <sub>4</sub>
Found	<0.020	<0.017	<0.057	<0.014	<0.020	<0.084	<0.096
LLD	0.020	0.017	0.057	0.014	0.020	0.084	0.096
Cations	Li	Na	NH <sub>4</sub>	K	Mg <sup>2</sup>	Ca <sup>2</sup>	
Found	<0.014	<0.015	<0.121	<0.021	<0.057	<0.034	
LLD	0.014	0.015	0.121	0.021	0.057	0.034	
Measures given in ng/cm LLD = Low Limit Detection							
VOC (Outgassing)	Global contamination as toluene equivalent					$\mu\text{g/g}$	<20
Surface Cleanliness	(Mil - STD 1246C) Level 25						
* Film properties measured on 50-micron film with a blow up ratio of 2.5 ** Film properties measured on 150-micron film with a blow up ratio of 2.5 All cleanliness properties measured on 150-micron film with a blow up ratio of 2.5							



## TO ORDER

Re-order code	Size
S-BBPN-1 (75µm thickness)	475mm x 610mm
S-BBPN-2 (70µm thickness)	980mm x 1090mm
S-BBPN-3 (75µm thickness)	700mm x 980mm
S-BBPN-4 (75µm thickness)	800mm x 1000mm
S-BBPN-5 (75µm thickness)	600mm x 600mm

## Packing

- S-BBPN-1 (75µm):  
100 folded bags per inner PE bag; one inner bag per outer PE bag; five outer bags per lined carton (500 pieces)
- S-BBPN-2 (70µm):  
25 folded bags per inner PE bag; one inner bag per outer PE bag; eight outer bags per lined carton (200 pieces)
- S-BBPN-3 (75µm):  
Five folded bags per inner PE bag; 10 inner bags per outer PE bag; two outer bags per lined carton (100 pieces)
- S-BBPN-4 (75µm):  
50 folded bags per inner PE bag; one inner bag per outer PE bag; four outer bags per lined carton (200 pieces)
- S-BBPN-5 (75µm):  
50 folded bags per inner PE bag; one inner bag per outer PE bag; four outer bags per lined carton (200 pieces)

PLEASE NOTE:  
Minimum Order Quantity (MOQ) 2000 bags

## CONTACT

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BioClean™ is a brand of Nitritex Ltd.  
For more information, please visit [www.bioclean.com](http://www.bioclean.com)

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