



# UV Protection Clean Bag in Standard Sizes

UV Protection Clean Bag in Standard Sizes is a clean polyethylene bag that prevents UV light, which promotes degradation of contents, from passing through it.

Cleanroom related packages are often required to protect contents, many of which are sensitive to UV light, from UV light. Our "UV Protection Clean Bag in Standard Sizes" is an innovative, ultraclean UV protection bag that blocks 99% of 385 nm and shorter wavelengths, which promote ultraviolet degradation.

Unlike (most) conventional UV protection bags, this UV protection clean bag does not incorporate an organic ultraviolet absorber, and thus is free from bleed-out of UV screening agents (formation of agglomerated powder) on the film surface or particle generation with time, and is safe for use in a cleanroom. It is available in small packs and is also suitable for customers who want to use the bag in small quantities.



## UV Protection Clean Bag in Standard Sizes

### Comparison of particles adhering to the inner surface of the bag

Specimen	Size	Material used	Measuring device
UV Protection Clean Bag in Standard Size UV-3	0.1mmX260mmX380mm	UV protection additive-free low density polyethylene	Particle counter from RION
Standard plastic bag	0.1mmX500mmX850mm	Low density polyethylene	

#### ● UV Protection Clean Bag in Standard Sizes

History Numeric (Total) C:\E9441.2\DATA\BACKUP\090206PL.TXT											
MEAS Point	Counter Type	Sample Vol	Sample Vol	Alarm Size	Alarm Level	Corr. Factor					
P1	KL-11_60	60	10.00mL	OFF	0	OFF	3um	5um	10um	25um	40um
Date	Time	3um	5um	10um	25um	40um					
09-02-06	11:15:20	0	0	0	0	0					
09-02-06	11:16:40	0	0	0	0	0					
09-02-06	11:18:00	0	0	0	0	0					
Max	11:15:20	0	0	0	0	0					
Ave	--:--:--	0	0	0	0	0					
Min	11:15:20	0	0	0	0	0					
09-02-06	11:26:20	6	2	0	0	0					
09-02-06	11:27:40	6	2	1	1	0					
09-02-06	11:29:00	5	2	0	0	0					
Max	11:26:20	6	2	1	1	0					
Ave	--:--:--	6	2	0	0	0					
Min	11:29:00	5	2	0	0	0					

#### ● Standard plastic bag

History Numeric (Total) D:\E961301\DATA\090606PET.TXT											
MEAS Point	Counter Type	Sample Vol	Sample Vol	Alarm Size	Alarm Level	Corr. Factor					
P2	KL-11_60	60	10.00mL	OFF	0	OFF	3um	5um	10um	25um	40um
Date	Time	3um	5um	10um	25um	40um					
09-06-06	13:20:51	0	0	0	0	0					
09-06-06	13:29:11	0	0	0	0	0					
09-06-06	13:29:31	1	1	1	0	0					
Max	13:29:31	1	1	1	0	0					
Ave	--:--:--	1	0	0	0	0					
Min	13:29:11	0	0	0	0	0					
09-06-06	13:32:55	138,769	80,303	9,770	727	21	6				
09-06-06	13:33:53	135,758	79,065	10,201	1,261	21	12				
09-06-06	13:35:15	131,156	82,304	10,928	1,868	60	8				
Max	13:32:55	138,769	80,303	10,928	1,868	60	12				
Ave	--:--:--	139,206	84,621	10,231	1,162	18	9				
Min	13:33:53	135,758	79,065	9,770	727	21	6				

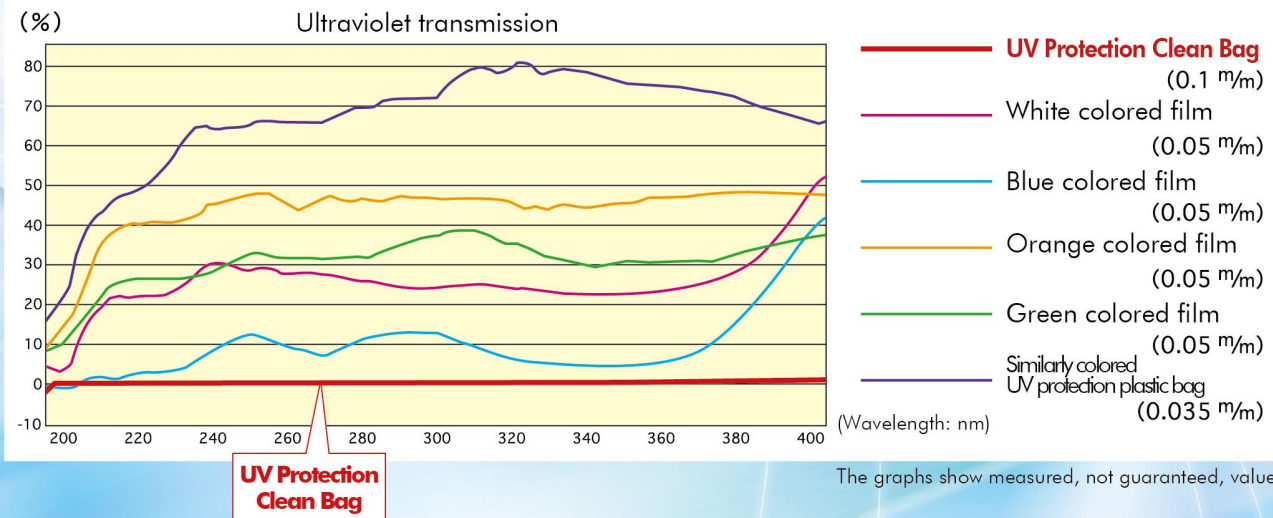
U Measurement method

(1) The bag was filled with 500 mL of dust-free water with the blank count close to zero and then tied at the top. (2) The bag was then shaken up and down and left to stand for 10 minutes. Then 10 mL of the water was taken out of the bag and the number of particles in this sample was counted. This measurement was repeated three times and the average value calculated.

\* Upper section: Particle counts in dust-free water Lower section: Measured values / The tables show measured, not guaranteed, values.



## UV protection performance of UV Protection Clean Bag



The graphs show measured, not guaranteed, values.

## Ultraviolet transmission

Film color / Wavelength	350(nm)	400(nm)	Film color / Wavelength	350(nm)	400(nm)
UV Protection Clean Bag	0.0(%)	0.6(%)	Blue colored film	5.1(%)	42.5(%)
Similarly colored UV protection plastic bag	76.6(%)	66.1(%)	Orange colored film	45.9(%)	47.9(%)
White colored film	22.6(%)	52.3(%)	Green colored film	30.5(%)	37.9(%)

\* The above figures show the measured, not guaranteed, values.

## Physical properties of UV Protection Clean Bag in Standard Sizes

Measurement item		UV Protection Clean Bag in Standard Sizes (UV-3)	Measurement method
Bag size (mm)		0.1 × 260 × 380	Steel rule of JIS grade 1
Tensile strength [N/mm <sup>2</sup> ]	MD	21.5	JIS Z-1702
	TD	26.6	
Tensile elongation [%]	MD	290	JIS Z-1702
	TD	470	
Tear strength [N/mm]	MD	15.4	JIS K-7128
	TD	18.5	
Seal strength [N/10mm]		18.8	Our measurement method

## Size list

Size No.	Size (mm) Thickness × width × length	Quantity (No. of bags)
UV-1	0.1 × 150 × 250	250
UV-3	0.1 × 260 × 380	250
UV-5	0.1 × 350 × 500	100
UV-7	0.1 × 460 × 600	100
UV-8	0.1 × 550 × 900	80

Other sizes can also be produced to order.

\* The figures shown on the left are measured, not guaranteed, values.



Clean and Quality

**ASO Co., Ltd.**

[Head office] 6-10-3, Toyosato, Higashiyodogawa-ku, Osaka 533-0013, Japan  
Phone No.: 06-6326-5080 Fax No.: 06-6328-5090  
E-mail: info@po-aso.co.jp

[Tokyo sales office] Akiyoshi Kyobashi Building 3rd Floor, 1-17-2, Kyobashi, Chuo-ku, Tokyo 104-0031, Japan  
Phone No.: 03-5524-5650 Fax No.: 03-5524-5651  
E-mail: tokyo@po-aso.co.jp

<http://www.po-aso.co.jp/>