

**VWR® AUTOCLAVABLE
BIOHAZARD BAGS**

DURABLE

RELIABLE

CONSISTENT

*When the only thing between you and an
infectious substance is a layer of plastic..
Shouldn't it be the best?*

Quality is not a choice...It's a RESPONSIBILITY!



REGULATORY COMPLIANCE

In a field where bag failure cannot be tolerated, we are recognized for products that have been specifically engineered for use in critical Level 3 and 4 containment research labs.

Autoclavable Biohazard Bags have the biohazard symbol printed on them as well as usage instructions as required by OSHA for proper handling and personnel safety. Biohazard bags are Regulated by State and Federal Laws, and determination of the correct product for any application should first be reviewed by the facility Safety Officer. MSDS and Technical Data sheets are available by request, for incorporating into written SOP's by Safety Officers.

In all cases, proper containment of potentially hazardous infectious material requires the bags to meet various strength standards. Individual States regulate separately, resulting in a range of specifications. All States require a clearly stated need for the bag to resist a specified impact to reduce the likelihood of bursting. Some States go further, requiring a minimum resistance to tearing, so as to reduce likelihood of a puncture, propagating into a major opening.

All bags are manufactured to meet all of your needs in this regard. Many states, like California, Pennsylvania and Florida, require very specific tear strength (480 grams in both directions), as well as the labeling that applies to the regulation itself. In the image below, you can see that all required labeling comes printed on each of these bags:

**Compliant with Federal DOT Regulation 49 CFR 173.197.(e).(1).(I)
ASTM D1922 Tear Resistance in both directions
ASTM D1709 Dart Impact Resistance**

**Compliant with California Health and Safety Code 117630
Compliant with Florida Dept. of Health Code 64E-16.004-2C,
Registration # PP-2-R1-04**

**Compliant with CDC recommendations for handling
of Highly Infectious Waste**

**Compliant with WHO Safe Management of Healthcare Waste
for Autoclaving and or Incineration**

We have a line of products that meet and exceed ALL regulatory demands nationwide.
(See *product list on attached Technical Data Sheet*)

CUSTOM PRINTING

All states require that the name and address of each institution, be written on each bag before waste can be picked up. Custom printing is available on all bags, thus eliminating this step for you!
(Minimum order quantities and a one-time printing plate charge of \$75 apply).

EASY INDICATOR

Infectious waste can be rendered sterile with the use of high temperature steam for a pre-determined time period as gained in the use of commercial autoclaves. Such sterile waste is now more economical for transport and disposal. Our Autoclavable biohazard bags clearly show when the bag has been processed through an autoclave cycle. We accomplish this, at no added cost, by imprinting a hidden graphic message of compliance on the outside of each bag, which becomes visible only after achieving proper autoclaving conditions (heat, steam and pressure).

Our temperature indicator printed on all Biohazard Bags after exposure reads:

"Contents Have Been Autoclaved".





VWR® Autoclave Biohazard Bags

VWR CATALOG NUMBERS:

Manufacturing country of origin for all item numbers below: USA

14230-910	8 x 12	14220-094	25 x 35
14220-090	12 x 24	14220-096	24 x 36
14230-912	19 x 24	11215-816	30 x 36
14220-092	24 x 30	14220-098	38 x 48

DESCRIPTION:

Specifically engineered to exhibit exceptional toughness, strength and excellent autoclavable temperature resistance.

These **Red** autoclavable **Bio**hazard bags meet all State & Federal requirements for hazardous waste handling. Including:

- **Compliant with Federal DOT Regulation 49 CFR 173.197** for HazMat Handling and Markings. They exceed the 480 gram tear test as defined by ASTM D1922 in both length (MD) and width (TD) directions.
- All **Bio**hazard bags have **OSHA required markings** printed in 4 languages (English, French, German and Spanish).
- All **Bio**hazard bags have Temperature Indicator patch (“Contents have been Autoclaved” after exposure).
- **Compliant with California Health and Safety Code 117630** (effective January 1, 2015)
- **Compliant with Florida Dept. Health Code # 64E-16.004-2C** Registration # PP-2-R1-04
- **Compliant with CDC Procedural Guidance** on the Proper Packaging of Highly Infectious Waste
- **Compliant with EU Hazardous Waste Directive and International WHO Directive for Safe Management of Healthcare Waste** for Autoclaving and or Incineration

TYPICAL PRODUCT CHARACTERISTICS:

Values expressed below for available nominal film thicknesses.

PROPERTIES		2.0 mil (50 µ)	UNITS	TEST METHOD
Elmendorf Tear Resistance*	MD	600	grams	ASTM D1922
	TD	900	grams	
Dart Impact Strength		>1400	grams	ASTM D1709
Coefficient of Friction		<0.20		ASTM D1894
Yield		15300	sq.in./lb.	

* Typical values determined by 3rd party independent Certified Test Laboratory

Technical Bag Use Recommendations for Autoclave Operation:

Add ½ liter of water to bag prior to putting in autoclave. Bags need to be able to vent steam; best practice is to close off by putting a test tube in top and wire close, remove test tube, place in autoclave with wire closed end up for good ventilation. Check with facility safety officer about spore kill testing requirements in your local, State or Country region.

2016 VWR® Autoclave Bag Program

BETTER VWR

1.5 mil Autoclave Bags

VWR autoclave bags provide an efficient, safe solution for the messy and potentially dangerous process of disposing of biohazardous waste material.

High strength, high temperature resistant polypropylene construction allows perfect adaptability to standard laboratory disposal procedures, including steam autoclaving. Rated for use at 135°C (275°F).

These bags are available clear or red with proper universal biohazard warnings and use instructions, or plain clear bags with no printing. All printed Biohazard bags include "Temperature Indicator Patch".

Bag Color	Print	Gauge Mil / Film	North America		Size "			Size cm			Definition	Case	Pack
			Cat. No.	Print-Ind	W	X	L	W	X	L			
Red	Print-Ind	1.5 mil PP	14220-000	8	12	20.3	30.5	1000	10 x 100	Biohazard	1000	10 x 100	
	Print-Ind	1.5 mil PP	14220-002	12	24	30.5	61	1000	10 x 100				
	Print-Ind	1.5 mil PP	14220-004	19	24	48.3	61	500	5 x 100				
	Print-Ind	1.5 mil PP	14220-006	24	36	61	91.4	500	5 x 100				
Clear	Print-Ind	1.5 mil PP	14220-008	10	15	25.4	36	1000	10 x 100	Biohazard	1000	10 x 100	
	Print-Ind	1.5 mil PP	14220-010	12	24	30.5	61	1000	10 x 100				
	Print-Ind	1.5 mil PP	14220-012	24	30	61	76.2	500	5 x 100				
	Print-Ind	1.5 mil PP	14220-014	24	36	61	91.4	500	5 x 100				
Clear	No Print	1.5 mil PP	14220-016	8	12	20.3	30.5	1000	10 x 100	Autoclave	1000	10 x 100	
	No Print	1.5 mil PP	14220-018	10	15	25.4	36	1000	10 x 100				
	No Print	1.5 mil PP	14220-020	12	24	30.5	61	1000	10 x 100				
	No Print	1.5 mil PP	14220-022	24	30	61	76.2	500	5 x 100				
Clear	No Print	1.5 mil PP	14220-024	24	36	61	91.4	500	5 x 100	Autoclave	500	5 x 100	

BETTER VWR

2.0 mil Autoclave Bags

Ideal for processing of biohazardous materials which require autoclaving prior to disposal. All biohazard bags come with temperature indicator patch. High integrity polypropylene bags withstand 135°C (275°F) maximum autoclave temperature. Twist-tie closure allows bag to expand and vent steam during sterilization. Bags are designed to resist puncture, tears, and leaks during proper handling. Meets the 165 gram dart drop test as defined by ASTM D1709-04. Available in red, clear, orange and yellow bags. Universal biohazard code meet OSHA regulation # 1910.1030 (G) (1) (i) for labeling.

All printed Biohazard bags have a temperature indicator patch with wording " CONTENTS HAVE BEEN AUTOCLAVED ". printed with a chemically active ink. Before autoclaving the ink is clear on a white background, after autoclaving words appear in a dark brown color. Providing proof that bag has been exposed to high temperatures for sterilization.

Bag Color	Print	Gauge Mil / Film	North America		Size "			Size cm			Definition	Case
			Cat. No.	Print-Ind	W	X	L	W	X	L		
Red	Print-Ind	2.0 mil PP	14220-026	8	12	20.3	30.5	400	400	Biohazard	400	
	Print-Ind	2.0 mil PP	14220-028	14	19	35.6	48.3	200	200			
	Print-Ind	2.0 mil PP	14220-030	19	23	48.3	61	200	200			
	Print-Ind	2.0 mil PP	14220-032	25	35	63.5	88.9	200	200			
Red	Print-Ind	2.0 mil PP	14220-034	36	45	91.4	114.3	100	100	Biohazard	100	
	No Print	2.0 mil PP	95042-564	8	10	20.3	25.4	100	100			
Clear	No Print	2.0 mil PP	95042-548	8	12	20.3	30.5	100	100	Autoclave	100	
	No Print	2.0 mil PP	95042-568	8	15	20.3	36	100	100			
Clear	No Print	2.0 mil PP	95042-550	10	10	25.4	25.4	100	100	Autoclave	100	
	No Print	2.0 mil PP	95042-552	10	12	25.4	30.5	100	100			
Clear	No Print	2.0 mil PP	95042-562	10	15	25.4	36	100	100	Autoclave	100	
	No Print	2.0 mil PP	95042-554	12	24	30.5	61	100	100			
Clear	No Print	2.0 mil PP	95042-556	24	30	61	76.2	100	100	Autoclave	100	
	No Print	2.0 mil PP	95042-558	24	36	61	91.4	100	100			
Clear	Print	2.0 mil PP	14220-036	8	12	20.3	30.5	400	400	Autoclave	400	
	Print	2.0 mil PP	14220-038	14	19	35.6	48.3	200	200			
	Print	2.0 mil PP	14220-040	19	23	48.3	61	200	200			
	Print	2.0 mil PP	14220-042	25	35	63.5	89	200	200			
Clear	Print	2.0 mil PP	14220-044	36	45	91.4	114.3	100	100	Autoclave	100	
	No Print	2.0 mil PP	11215-904	24	36	61	91.4	200	200			
Clear	No Print	2.0 mil PP	11215-680	37	48	94	122	100	100	Autoclave	100	
	Print-Ind	2.0 mil PP	14220-046	8	12	20.3	30.5	400	400			
Orange	Print-Ind	2.0 mil PP	14220-048	14	19	35.6	48.3	200	200	Biohazard	200	
	Print-Ind	2.0 mil PP	14220-050	19	23	48.3	61	200	200			
Orange	Print-Ind	2.0 mil PP	14220-052	25	35	63.5	89	200	200	Biohazard	200	
	Print-Ind	2.0 mil PP	14220-054	36	45	91.4	114.3	100	100			
Yellow	Print-Ind	2.0 mil PP	89130-796	8	12	20.3	30.5	400	400	Biohazard	400	
	Print-Ind	2.0 mil PP	89129-468	14	19	35.6	48.3	200	200			
	Print-Ind	2.0 mil PP	89129-470	19	24	48.3	61	200	200			
	Print-Ind	2.0 mil PP	89129-472	24	36	61	91.4	200	200			
Yellow	Print-Ind	2.0 mil PP	89129-474	37	48	94	122	100	100	Biohazard	100	
	Print-Ind	2.0 mil PP	14220-066	12	24	30.5	61	200	200			
Clear	Print-Ind	2.0 mil PP	14220-068	24	30	61	76.2	200	200	Biohazard	200	
	Print-Ind	2.0 mil PP	14220-070	24	36	61	91.4	200	200			

Best VWR

2.0 mil HIGH STRENGTH Autoclave Bags

Engineered to meet the most demanding regulatory specifications worldwide. These bags are specifically designed for use in **BIOsafety Level 3 & 4 (BSL 3 & 4) research labs** for handling of very dangerous materials. They exceed the 480 gram tear test as defined by ASTM D1922-06A in both directions. These biohazard bags meet all State & Federal requirements for hazardous waste handling. Including Florida and Pennsylvania Department of Health Codes. Biohazard bags have a printed temperature indicator. Meets DOT Regulation 173.197 for HazMat handling and marking Comply with EU Hazardous Waste Directive, for autoclaving

Bag Color	Print	Gauge Mil / Film	North America Cat. No.	Size " W x L	Size cm W x L	Definition	Case
Red	Print-Ind	2.0 mil PP	14230-910	8 x 12	20.3 x 30.5	Biohazard	400
Red	Print-Ind	2.0 mil PP	14220-090	12 x 24	30.5 x 61	Biohazard	200
Red	Print-Ind	2.0 mil PP	14230-912	19 x 24	48.3 x 61	Biohazard	200
Red	Print-Ind	2.0 mil PP	14220-092	24 x 30	61 x 76.2	Biohazard	200
Red	Print-Ind	2.0 mil PP	14220-094	25 x 35	63.5 x 89	Biohazard	200
Red	Print-Ind	2.0 mil PP	14220-096	24 x 36	61 x 91.4	Biohazard	200
Red	Print-Ind	2.0 mil PP	14220-098	38 x 48	96 x 122	Biohazard	100
Red	Print-Ind	2.0 mil PP	11215-816	30 x 36	76.2 x 91.4	Biohazard	200
Red	No Print	2.0 mil PP	14220-100	12 x 24	30.5 x 61	Autoclave	200
Red	No Print	2.0 mil PP	14220-102	24 x 30	61 x 76.2	Autoclave	200
Red	No Print	2.0 mil PP	14220-104	24 x 36	61 x 91.4	Autoclave	200

VWR 2.0 mil HIGH STRENGTH Incineration Bags

Specifically designed to meet all Federal and State Regulations for handling and shipment of biohazardous waste. Meets DOT Regulation 173.197 for HazMat handling and marking

Bag Color	Print	Gauge Mil / Film	North America Cat. No.	Size " W x L	Size cm W x L	Definition	Case
Red	Print	2.0 mil PP	14220-106	8 x 12	20.3 x 30.5	Biohazard	400
Red	Print	2.0 mil PP	14220-108	14 x 19	35.6 x 48.3	Biohazard	200
Red	Print	2.0 mil PP	14220-110	19 x 24	48.3 x 61	Biohazard	200
Red	Print	2.0 mil PP	14220-112	25 x 35	63.5 x 89	Biohazard	200
Red	Print	2.0 mil PP	14220-114	36 x 45	91.4 x 114.3	Biohazard	100

VWR 3.0 mil Double Thick Autoclavable Bags

High strength, high temperature resistant 3 mil polypropylene bags. Autoclavable up to 135°C (275°F). A heavy duty bag with extra puncture resistance and impact strength.

Bag Color	Print	Gauge Mil / Film	North America Cat. No.	Size " W x L	Size cm W x L	Definition	Case
Red	Print-Ind	3.0 mil PP	14220-082	12 x 24	30.5 x 61	Biohazard	250
Red	Print-Ind	3.0 mil PP	14220-084	24 x 30	61 x 76.2	Biohazard	250
Red	Print-Ind	3.0 mil PP	14220-086	24 x 36	61 x 91.4	Biohazard	250
Red	Print-Ind	3.0 mil PP	14220-088	38 x 48	96 x 122	Biohazard	50
Red	Print-Ind	4.0 mil PP	14221-994	24 x 36	61 x 91.4	Biohazard	200
Red	Print-Ind	4.0 mil PP	14221-996	31 x 40	78.4 x 101.6	Biohazard	100

VWR 4.0 mil Double Thick Autoclavable Bags

4 mil high molecular high density polyethylene (HDPE) bags. Designed for autoclaving animal cages and other sharp edged items. Maximum autoclave temperature is 121°C (250°F). Ideal for non waste items.

Bag Color	Print	Gauge Mil / Film	North America Cat. No.	Size " W x L	Size cm W x L	Definition	Case
Red	Print-Ind	4.0 mil HMHD	11215-822	12 x 24	30.5 x 61	Biohazard	250
Red	Print-Ind	4.0 mil HMHD	11215-823	24 x 30	61 x 76.2	Biohazard	250
Red	Print-Ind	4.0 mil HMHD	11215-826	24 x 36	61 x 91.4	Biohazard	250
Red	Print-Ind	4.0 mil HMHD	11215-824	38 x 48	96 x 122	Biohazard	50
Clear	No Print	4.0 mil HMHD	14232-184	24 x 36	61 x 91.4	Autoclave	250
Clear	No Print	4.0 mil HMHD	14232-764	38 x 48	96 x 122	Autoclave	50

VWR Containers

Containers are made of rigid high density PE for durability and leak-free performance. Snap on snap off lid provides safety in the lab. White with biohazard label on cover and container side.

Bag Color	Print	Gauge Mil / Film	North America Cat. No.	Size " W x L	Size cm W x L	Definition	Case
White	HDPE		14221-154	8 qt./ w 1 bag	bag 14 x 19 # 14220-048 Orange		1
White	HDPE		14221-156	12 qt./ w 1 bag	bag 19 x 23 # 14220-050 Orange		1
White	HDPE		14221-158	48 qt./ w 1 bag	bag 25 x 35 # 14220-052 Orange		1
White	HDPE		14221-160	8 qt./ w 100 bags	bags 14 x 19 # 14220-048 Orange		1
White	HDPE		14221-162	12 qt./ w 100 bags	bags 19 x 23 # 14220-050 Orange		1
White	HDPE		14221-164	48 qt./ w 100 bags	bags 25 x 35 # 14220-052 Orange		1

VWR Specimen Bags w / Document Pouch

Self Sealing Specimen Transport bag with secure pouch for paper work and sample

Bag Color	Print	Gauge Mil / Film	North America Cat. No.	Size " W x L	Size cm W x L	Definition	Case
Clear	Print	2.0 LDPE	11215-682	9 x 12		Biohazard	500
Clear	Print	2.0 LDPE	11215-684	6 x 9		Biohazard	500



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