

The new NFPA 1994 Class 2 certified DuPont™ Tychem® BR/LV garments

TECHNICAL DATA SHEET

The Class 2 Standard—

An intermediate level of chemical, liquid, and vapor protection. Garments that are certified as Class 2 are designed for situations where there is an immediate danger to life and health (IDLH) and must be worn with a self-contained breathing apparatus (SCBA).



The new DuPont™ Tychem® BR garment meets the stringent Class 2 requirements of the 2007 edition of NFPA 1994, the highest level of protection under the revised standards. This limited-use protective ensemble helps give first responders an increased level of protection when they need to respond to a chemical, biological or radioactive terrorist incident quickly and effectively.

The Tychem® BR garment offers increased vapor and liquid protection without full encapsulation. Integrated gloves provide a liquid-tight seal. And when every second counts, the gloves and a rear-entry zipper closure make the garment faster and easier to don and doff.

Durable, high-value fabric

DuPont™ Tychem® BR offers the tear, puncture and abrasion resistance thousands of first responders and industrial professionals expect from long-lasting, high-value DuPont fabrics.

Protection that's up to the job

DuPont™ Tychem® BR helps protect you from more than 250 chemicals, including the ones most frequently involved in industrial or HAZMAT incidents.

Integrated face seal and respirator for liquid integrity

Engineered to provide effective liquid and increased vapor protection without encapsulation. Designed to be used with NIOSH approved CBRN SCBA respirators.

Integrated gloves for a tight seal

The new DuPont™ Tychem® BR garment offers integrated gloves that do not require tape, giving you a high level of protection while making it faster to take the garment on and off with reduced glove inversion.

Rear-entry zipper closure

For superior liquid splash protection and protection while doffing, DuPont™ Tychem® BR garments have a rear-entry zipper closure covered with a triple storm flap.

Enhanced comfort and flexibility

Soft, lightweight and flexible for comfort and ease of movement, DuPont™ Tychem® BR helps make it easier to get the job done in difficult work environments.

High or low visibility for safety

DuPont™ Tychem® BR is highly visible in both bright and dim light, offering a high degree of safety for HAZMAT teams and other first responders. Garments are also available in low-visibility olive drab.



high-visibility
yellow



low-visibility
olive drab

Part numbers

BR611T (high-visibility yellow)

LV611T (low-visibility olive drab)



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Physical properties of DuPont™ Tychem® BR

Property	Tychem® BR	Standard
Basis Weight	6.6 oz/yd ²	ASTM D3776
Thickness	16 mils	ASTM D1777
Ball Burst	90 lbf	ASTM D3787-89
Grab Tensile, MD/CD	90/84 lbf	ASTM D5034
Trap Tear, MD/CD	19/19 lbf	ASTM D5597

These results are measured using the latest ASTM test methods. Results will vary due to the changes in test methods. A true test of performance is IN USE.

Permeation Data for ASTM Recommended List of Chemicals for Evaluating Protective Clothing Materials (ASTM F1001)

Chemical Name	Physical Phase	Avg. Normalized Breakthrough Time (minutes)	Avg. Permeation Rate (µg/cm ² /minute)
Acetone	L	>480	<0.001
Acetonitrile	L	>480	<0.0003
Ammonia	G	46	0.62
1,3-Butadiene	G	>480	<0.001
Carbon disulfide	L	>480	<0.001
Chlorine	G	>480	<0.01
Dichloromethane	L	432	0.06
Diethylamine	L	>480	<0.001
N,N-Dimethylformamide	L	>480	<0.001
Ethyl acetate	L	>480	<0.001
Ethylene oxide	G	>480	<0.01
n-Hexane	L	>480	<0.001
Hydrogen chloride	G	>480	<0.1
Methanol	L	157	0.81
Methyl chloride	G	>480	<0.001
Nitrobenzene	L	>480	<0.001
Sodium hydroxide, 50%	L	>480	<0.01
Sulfuric acid, 98%	L	>480	<0.01
Tetrachloroethylene	L	>480	<0.001
Tetrahydrofuran	L	>480	<0.001
Toluene	L	>480	<0.001

INDEX OF CODES: > = greater than, < = less than, L = liquid, G = gas

Numbers reported are averages of samples tested by the ASTM F739 test method. Sample results do vary and therefore averages for these results are reported.

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WARNINGS:

- 1) Tychem® garments are not flame-resistant and should not be used around heat, flame, sparks or in potentially flammable or explosive environments.
- 2) Garments made of Tychem® should have slip-resistant or antislip materials on the outer surface of boots, shoe covers or other garment surfaces in conditions where slipping may occur.

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