

Outside:	Polyester woven fabric
Inside:	Fluoropolymer/TPU barrier film
Weight, nominal:	440 g/m <sup>2</sup>
Colour (outside / inside)	Black / White

Physical performance (NFPA 1994:2012 Class 2)			
	Test method	Requirement	Result*
Burst Strength	ASTM D751	≥ 156 N	1331 N
Puncture Propagation Tear Resistance	ASTM D2582	≥ 31 N	MD 85 N XMD 121 N
Cold Temperature Performance (-25°C)	ASTM D747	≤ 0.057 Nm	MD 0.002 Nm XMD 0.002 Nm
Seam Breaking Strength	ASTM D751	≥ 34 N/25mm	470.4 N/25mm

\*MD=Machine direction, XMD=Cross Machine direction

Barrier performance – Chemical permeation, Warfare agents (NFPA 1994:2012 Class 2)*			
Chemical	Test method	Requirement	Result
Acrolein	NFPA 1994 §8.7	< 6.0 µg/cm <sup>2</sup>	< 1.0 µg/cm <sup>2</sup>
Acrylonitrile (VCN)	NFPA 1994 §8.7	< 6.0 µg/cm <sup>2</sup>	< 1.0 µg/cm <sup>2</sup>
Ammonia	NFPA 1994 §8.7	< 6.0 µg/cm <sup>2</sup>	< 1.0 µg/cm <sup>2</sup>
Chlorine	NFPA 1994 §8.7	< 6.0 µg/cm <sup>2</sup>	< 1.0 µg/cm <sup>2</sup>
Dimethyl sulfate (DMS)	NFPA 1994 §8.7	< 6.0 µg/cm <sup>2</sup>	< 1.0 µg/cm <sup>2</sup>
Mustard gas (HD)	NFPA 1994 §8.7	< 4.0 µg/cm <sup>2</sup>	0.01 µg/cm <sup>2</sup>
Soman (GD)	NFPA 1994 §8.7	< 1.25 µg/cm <sup>2</sup>	Not detected

\*Tests performed are Cumulative testing, test duration 1 hour.

Barrier performance – Chemical permeation, Industrial chemicals*			
Chemical	Test method	BT @ 0.1 µg/min/cm <sup>2</sup>	BT @ 1.0 µg/min/cm <sup>2</sup>
Acrolein	EN-ISO 6529	> 480 min	> 480 min
Acrylonitrile	EN-ISO 6529	> 240 min	> 480 min
Ammonia (gas)	EN-ISO 6529	25 min	> 480 min
Chlorine (gas)	EN-ISO 6529	> 480 min	> 480 min
Dimethyl sulphate	EN-ISO 6529	> 480 min	> 480 min
Formaldehyde	EN-ISO 6529	> 480 min	> 480 min
Hydrogen chloride (gas)	EN-ISO 6529	> 480 min	> 480 min
Hydrogen cyanide (gas)	EN-ISO 6529	> 30 min	> 480 min
Mustard gas	FINABEL Conv. 0.7.C	>1440 min	
Phosgene	EN-ISO 6529	> 120 min	> 220 min
Sulphur dioxide (gas)	EN-ISO 6529	> 30 min	> 120 min

\*Tests performed at room temperature and test duration 8 hours. Except Mustard gas, which is tested at 37 °C and test duration 24 hours. All chemicals are tested at 99 – 100 % concentration unless otherwise stated. BT = Breakthrough time at specified breakthrough criteria.

**NOTE:** For up to date chemical data, please visit our online chemical database at <http://protective.ansell.com>