

**ASTM F903-10 Standard Test Method for Resistance of Materials Used in Protective Clothing to Penetration
by Liquids, Procedure A - Magnaprene fabric**

Challenge Chemical	Replicate	Average Sample Thickness (mm)	Test Temperature (°C)	Results after		Final Results
				5 min @ 0 psig	10 min @ 2 psig	
Acetone	1	0.242	22.3	Pass	Pass	Pass
	2	0.301		Pass	Pass	
	3	0.297		Pass	Pass	
Acetonitrile	1	0.300	22.2	Pass	Pass	Pass
	2	0.306		Pass	Pass	
	3	0.308		Pass	Pass	
Carbon disulfide	1	0.299	22.9	Pass	Pass	Pass
	2	0.288		Pass	Pass	
	3	0.288		Pass	Pass	
Dichloromethane	1	0.279	22.6	Pass	Pass	Pass
	2	0.285		Pass	Pass	
	3	0.285		Pass	Pass	
Diethylamine	1	0.314	22.6	Pass	Pass	Pass
	2	0.305		Pass	Pass	
	3	0.302		Pass	Pass	
Dimethylformamide	1	0.278	22.6	Pass	Pass	Pass
	2	0.280		Pass	Pass	
	3	0.281		Pass	Pass	
Ethyl acetate	1	0.310	23.2	Pass	Pass	Pass
	2	0.311		Pass	Pass	
	3	0.309		Pass	Pass	
n-Hexane	1	0.283	21.6	Pass	Pass	Pass
	2	0.296		Pass	Pass	
	3	0.301		Pass	Pass	
Methanol	1	0.294	22.1	Pass	Pass	Pass
	2	0.297		Pass	Pass	
	3	0.302		Pass	Pass	
Nitrobenzene	1	0.292	22.7	Pass	Pass	Pass
	2	0.312		Pass	Pass	
	3	0.308		Pass	Pass	
Sodium hydroxide	1	0.290	22.1	Pass	Pass	Pass
	2	0.292		Pass	Pass	
	3	0.293		Pass	Pass	
Sulfuric acid, 93%	1	0.298	22.2	Pass	Pass	Pass
	2	0.309		Pass	Pass	
	3	0.303		Pass	Pass	
Tetrachloroethylene	1	0.314	23.0	Pass	Pass	Pass
	2	0.313		Pass	Pass	
	3	0.311		Pass	Pass	
Tetrahydrofuran	1	0.305	22.1	Pass	Pass	Pass
	2	0.299		Pass	Pass	
	3	0.303		Pass	Pass	
Toluene	1	0.283	23.1	Pass	Pass	Pass
	2	0.294		Pass	Pass	
	3	0.284		Pass	Pass	
Hydrofluoric acid, 48%	1	0.305	22.1	Pass	Pass	Pass
	2	0.291		Pass	Pass	
	3	0.302		Pass	Pass	

* Testing finalized 12 November 2015

ASTM F739-12 Standard Test Method for Resistance of Protective Clothing Materials to Permeation by Liquids or Gases under Conditions of Continuous Contact - Magnaprene fabric

Challenge Chemical	Replicate	Average Sample Thickness (mm)	Test Temperature (°C)	Normalized Breakthrough Time (min)	Maximum Permeation Rate (µg/cm ² /min)	Minimum Detectable Rate (µg/cm ² /min)
Propylene oxide (Liquid)	1	0.380	27.0	0	6.06	0.05
	2	0.380	27.0	0	5.93	
	3	0.380	27.0	0	6.15	
Ethylene oxide, (Gas)	1	0.410	27.0	>480	<0.05	0.05
	2	0.380	27.0	>480	<0.05	
	3	0.380	27.0	>480	<0.05	

* Testing finalized 25 June 2015

Detailed test results are available upon request