

## RSG Microporous LCP 200 vs Tyvek® Classic Xpert

FABRIC OVERVIEW		
Product:	<b>RSG Microporous LCP 200</b>	<b>Tyvek® Classic Xpert</b>
<b>Description</b>	Microporous Laminate	Flash Spun PE HD grade
<b>Basis Weight:</b>	51 gsm	41.5 gsm
<b>Composition</b>	MP film/adhesive and SBPP	Homogeneous PE
<b>Colour(s):</b>	White	White, Green and Blue

PRODUCT DESIGN FEATURES		
Features	<b>RSG Microporous LCP 200 standard pattern</b>	<b>Tyvek® standard pattern</b>
Seam Design	Internal Overlocked with Bound Sealed seam on legs and crotch	External stitched seam
3-Piece Hood	Yes	Yes
Elastication Style	Open stitched elastication	Open stitched elastication
Elasticated	Fully Elasticated	Fully Elasticated
Finger loops	Yes	No
Zip flap with Sealable Tape	Yes	No sealable tape
Zipper	2 way zipper	2 way zipper

Fabric Physical Performance according to EN 14325: 2004		
Test Method	<b>RSG Microporous LCP 200</b>	<b>Tyvek® Classic Xpert</b>
	<b>EN Class / Result</b>	<b>EN Class / Result</b>
Abrasion Resistance EN530 Method 2	>100<500 cycles Class 2 of 6	>100<500 cycles Class 2 of 6
Flex ISO 7854 Method B	>15,000 < 40,000 Class 4 of 6	>100,000 cycles Class 6 of 6
Tear Resistance EN ISO 9073-4 (MD)	50.2N Class 3 of 6	27N Class 1 of 6
Tear Resistance EN ISO 9073-4 (CD)	28.7N Class 2 of 6	20N Class 1 of 6
Tensile Strength ISO 13934-1 (MD)	88N Class 2 of 6	82N Class 2 of 6
Tensile Strength ISO 13934-1 (CD)	43N Class 1 of 6	68N Class 2 of 6
Puncture Resistance EN 863	8.0N Class 1 of 6	12.5N Class 2 of 6

Additional Physical Performance Data		
Test Method	<b>RSG Microporous LCP 200</b>	<b>Tyvek® Classic Xpert</b>
	<b>EN Class / Result</b>	<b>EN Class / Result</b>
Resistance to water penetration BS EN 20811	24.3 kPa	12kPa
EN 25978 Resistance to Blocking	No Blocking	No Blocking
ISO 13938-1 Bursting Resistance	123 kPa Class 2 of 6	No data

## RSG Microporous LCP 200 vs Tyvek® Classic Xpert

### EN ISO 6530 Fabric Repellence to Liquid Chemicals

Chemical	RSG Microporous LCP 200	Tyvek® Classic Xpert
	EN Class / Result	EN Class / Result
30% Sulphuric Acid	96.7% Class 3 of 3	>95% Class 3 of 3
10% Sodium Hydroxide	97.9% Class 3 of 3	>95% Class 3 of 3
o-Xylene	97.3% Class 3 of 3	No data
Butan-1-ol	95.6% Class 3 of 3	No data

### EN ISO 6530 Fabric Resistance to Penetration by Liquid Chemicals

Chemical	RSG Microporous LCP 200	Tyvek® Classic Xpert
	EN Class / Result	EN Class / Result
30% Sulphuric Acid	0.0% Class 3 of 3	<1% Class 3 of 3
10% Sodium Hydroxide	0.0% Class 3 of 3	<1% Class 3 of 3
o-Xylene	0.0% Class 3 of 3	No data
Butan-1-ol	0.0% Class 3 of 3	No data

### EN 14126: 2003 Fabric Barrier to Infective Agents

Test Method	RSG Microporous LCP 200		Tyvek® Classic Xpert	
	Result	EN Class	Result	EN Class
ISO 16603 Resistance to penetration by blood/fluids under pressure. Synthetic blood method.	1.75kPa	Class 2 of 6	PASS	Class 3 of 6
ISO 16604 Resistance to penetration by blood and other body fluids-borne pathogens. Phi-X174 method.	1.75kPa	Class 2 of 6	FAIL	Not classified
EN ISO 22610 Resistance to wet bacterial penetration (mechanical contact).	Penetration >75 mins	Class 6 of 6	PASS	Class 1 of 6
ISO/DIS 22611 Resistance to penetration by biologically contaminated aerosols.	Penetration Ratio Log 1.3	Class 1 of 3	PASS	Class 1 of 3
ISO 22612 Resistance to penetration by dry microbial contaminated powders.	Penetration Log UFC 0.3	Class 3 of 3	PASS	Class 1 of 3

### RSG Microporous LCP 200 vs Tyvek® Classic Xpert

Whole Suit Test Results			
Test Method	Description	RSG Microporous LCP 200	Tyvek® Classic Xpert
		Result	Result
EN ISO 13982-2	<b>Type 5</b> Particulate Inward Leakage*	Ljmn, 82/90 ≤ 6.6% Ls, 8/10 ≤ 3.5% TIL = 2.2%	PASS TIL 1.83% Ljmn, 82/90 ≤ 30% Ls, 8/10 ≤ 15%
EN 13034 EN ISO 17491-4:2008 Method A	<b>Type 6</b> Reduced Spray Test*	PASS (2 suits with no leakage; ingress on 1 suit only, with stain area <2.5% of total permitted leakage area)	PASS - No data
EN 1073-2	Inward leakage test for non-ventilated protective clothing against particulate radioactive contamination*	PASS Class 1 of 3 NPF 40 TIL <sub>E</sub> = 4.0% TIL <sub>A</sub> = 2.5%	PASS Class 2 NPF 50 TIL <sub>E</sub> < 3% TIL <sub>A</sub> < 2%
EN ISO 13935-2	Seam Strength	Stitched seam: 87.0N Class 3 of 6	>75N Class 3 of 6
		Bound seam: 100.0N Class 3 of 6	

\* Whole suit testing carried out with additional PPE; wrists, ankles, hood and zip flap closed and taped.

CE Approvals			
Directive 89/686/EEC	PPE Category	RSG Microporous LCP 200	Tyvek® Classic Xpert
		Result	Result
EN ISO 13982-1: 2004 +A1:2010	<b>Type 5</b> (Limited life, full body protection against airborne solid particulates)	YES	YES
EN 13034: 2005+A1: 2009	<b>Type 6</b> (Limited life, full body limited chemical protective clothing against liquids)	YES	YES
EN 1073-2: 2002	Non-ventilated protective clothing against particulate radioactive contamination	YES	YES
EN 14126: 2003	<b>Types 5-B, 6-B</b> (Limited life, full body protective clothing against infective agents)	X	FAILS EN 16604 (and stitched seam)
EN1149-5: 2008	For electrostatic dissipative protective clothing	PASS Half Decay t50 = 0.12s R = 1.1 x10 <sup>9</sup> 2.5 x 10 <sup>8</sup> Ω	EN1149-1 PASS Inside and outside ≤ 2.5 x 10 <sup>9</sup> Ω