

# Fabric Performance

## EN14325 Fabric Physical Tests

	MICROGARD <sup>®</sup> 1500	PLUS: MICROGARD <sup>®</sup> 1500	COMFORT: MICROGARD <sup>®</sup> 2000	PLUS: MICROGARD <sup>®</sup> 2000	PLUS: MICROGARD <sup>®</sup> 2500	MICROCHEM <sup>®</sup> 3000	MICROCHEM <sup>®</sup> 4000	MICROGARD <sup>®</sup> FR	MICROGARD <sup>®</sup> CFR
	SMS	Anti-static SMS	Microporous PE Laminate	Microporous PE Laminate	Microporous PP Laminate	Spunbond PP with barrier film	Multi-Layer barrier laminate	50% FR Treated Sontara, 5% woodpulp, 45% polyester with addition of Fluoro-chemical	50% FR Treated Sontara, 5% woodpulp, 45% polyester with PVC Barrier film
EN 530 Abrasion	>10	>10	>100	>100	>100	>500	2000	>500	>2.000
EN ISO 7854 Flex Cracking	>15,000	>15,000	>40,000	>40,000	>40,000	>100,000	40,000	>100,000	>5,000
EN ISO 9073-4 Tear Resistance (MD)	>20N	>20N	40.7N	40.7N	43.1N	44N	88N	42.1N	21.4N
EN ISO 9073-4 Tear Resistance (CD)			18.6N	18.6N	35.7N	29N	44N	26.3N	25N
EN ISO 13934-1 Tensile Strength (MD)			108.1N	108.1N	109N	172N	164.7N	164.7N	167.2N
EN ISO 13934-1 Tensile Strength (CD)	>30N	108.1N	48.3N	48.3N	113.5N	62N	84N	90.7N	97.9N
EN 863 Puncture Resistance	>5N	>5N	8.2N	8.2N	15.23N	10N	16N	17N	14.64N
EN ISO 13938-1 Burst Resistance		>40kPa	184.1kPa	184.1kPa	110.7kPa	90kPa	116kPa	120kPa	252kPa
EN 13274-4 Resistance to ignition	✓	✓	✓	✓	✓	✓	✓	✓	✓
EN 13274-4 Method 3 Resistance to flame							Level 1		

## Specialist Tests

EN 1149-1 Anti-static		✓	✓	✓	✓	✓	✓	✓	✓
BS EN 20811 Hydrostatic Head (water pressure test)			>200cm	>200cm	>500cm	>350cm	>692cm		
EN533 Limited Flame Retardancy								Index 1/0	Index 1/0
EN 368 Repellence to Liquids - 30% Sulphuric Acid	>95%	>80%	96.7%	96.7%	99.3%	98.0%	93.4%	96.2%	97.7%
EN 368 Repellence to Liquids - 10% Sodium Hydroxide	>95%	>90%	96.7%	96.7%	96.3%	97.7%	93.0%	96.1%	97.9%
EN 368 Repellence to Liquids - n-heptane (undiluted)	0.0%	0.0%	93.8%	93.8%	87.2%	92.2%	91.0%	21.6%	89.0%
EN 368 Repellence to Liquids - Isopropanol	0.0%	0.0%	95.5%	95.5%	91.7%	79.1%	90.7%	1.6%	93.7%
EN 368 Resistance to penetration by liquids - 30% Sulphuric Acid	0%	0%	0%	0%	0%	0%	0%	0%	0%
EN 368 Resistance to penetration by liquids - 10% Sodium Hydroxide	0%	<5%	0%	0%	0%	0%	0%	0%	0%
EN 368 Resistance to penetration by liquids - n-heptane (undiluted)	>20%	>20%	0%	0%	0%	0%	0%	17.7%	0%
EN 368 Resistance to penetration by liquids - Isopropanol	>15%	>15%	0%	0%	0%	0%	0%	14.8%	0%

## EN ISO 6529/EN374-3 Permeation Test - NBT 1.0µm/cm2 \*\*\*

Acetone					Immediate	28 mins	>540 mins		
Acetonitrile					Immediate	Immediate	>540 mins		
Ammonia (anhydrous), 99.99%					Immediate	3 mins	60 mins		
Carbon Disulfide					5	Immediate	2 mins		
Chlorine Gas, 99.5%					Immediate	10 mins	>540 mins		
Dichloromethane					Immediate	Immediate	9 mins		
Diethylamine					Immediate	Immediate	Immediate		
Ethyl Acetate					Immediate	Immediate	>540 mins		
n-Heptane					Immediate	Immediate	>540 mins		
Hydrochloric Acid 36%						>480 mins	>480 mins		>480 mins
Hydrogen Chloride, 99.0%					Immediate	8 mins	>540 mins		
Methanol					Immediate	>540 mins	>540 mins		
Sodium Hydroxide, 30%				>480mins	>480	>540 mins	>540 mins		
Sulfuric Acid 96%					>480	>540 mins	>540 mins		16 mins
Tetrahydrofuran					Immediate	Immediate	5 mins		
Toluene					Immediate	Immediate	>540 mins		

## EN14126 BARRIER TO INFECTIVE AGENTS

ISO 16603 Resistance to penetration by blood/fluids under pressure				Class 6 of 6	Class 6 of 6	Class 6 of 6	Class 6 of 6		
ISO 16604 Resistance to penetration by blood borne pathogens				Class 6 of 6	Class 6 of 6	Class 6 of 6	Class 6 of 6		
EN ISO 22610 Resistance to wet bacterial penetration (mechanical contact)				Class 6 of 6	Class 6 of 6	Class 6 of 6	Class 6 of 6		
ISO/DIS 22611 Resistance to biologically contaminated aerosols				Class 3 of 3	Class 3 of 3	Class 3 of 3	Class 3 of 3		
ISO 22612 Resistance to dry microbial penetration				Class 3 of 3	Class 3 of 3	Class 3 of 3	Class 3 of 3		

\* Results shown are fabric minimum performance. For specific performance data on M1500 fabrics please contact Microgard Ltd for a Product Technical Data Sheet.

\*\* Fabric results for Microporous fabric which covers at least 85% of the product. Refer to M1500 Plus results for back panel fabric performance.

\*\*\* Permeation results recorded at 0.1µm/cm<sup>2</sup> for M2500 Plus fabric. ✓ = Pass