

Fabric Performance

	MICROGARD[®] 1500	MICROGARD[®] 1500 PLUS	MICROGARD[®] 2000	MICROGARD[®] 2500 PLUS	MICROCHEM[®] 3000	MICROCHEM[®] 4000	MICROGARD[®] FR	MICROGARD[®] CFR
	SMS	Anti-static SMS	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 Fluro-chemical	50% FR Treated Sontara, 5% woodpulp, 45% polyester with PVC Barrier film
EN14325 Fabric Physical Tests	Microgard 1500 & Microgard 1500 Plus*		Microgard 2000 Comfort**					
EN 530 Abrasion	> 10	> 10	> 100	> 100	> 500	2000	> 500	> 2.000
EN ISO 7854 Flex Cracking	> 15,000	> 15,000	> 40,000	> 40,000	> 100,000	40,000	> 100,000	> 5,000
EN ISO 9073-4 Tear Resistance (MD)	> 20N	> 30N	40.7N	43.1N	44N	88N	42.1N	21.4N
EN ISO 9073-4 Tear Resistance (CD)	> 25N	> 20N	18.6N	35.7N	29N	44N	26.3N	25N
EN ISO 13934-1 Tensile Strength (MD)	> 90N	> 75N	108.1N	109N	172N	164.7N	164.7N	167.2N
EN ISO 13934-1 Tensile Strength (CD)	> 55N	> 45N	48.3N	113.5N	62N	84N	90.7N	97.9N
EN 863 Puncture Resistance	> 5N	> 5N	8.2N	15.23N	10N	16N	17N	14.64N
EN ISO 13938-1 Burst Resistance		> 40kPa	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	> 500cm	> 350cm	> 650cm		
EN533 Limited Flame Retardancy							Index 1/0	Index 1/0
EN 368 Repellence to Liquids - 30% Sulphuric Acid	> 95%	> 80%	96.7%	99.3%	98.0%	93.4%	96.2%	97.7%
EN 368 Repellence to Liquids - 10% Sodium Hydroxide	> 95%	> 90%	96.7%	96.3%	97.7%	93.0%	96.1%	97.9%
EN 368 Repellence to Liquids - n-heptane (undiluted)	0.0%	0.0%	93.8%	87.2%	92.2%	91.0%	21.6%	89.0%
EN 368 Repellence to Liquids - Isopropanol	0.0%	0.0%	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%
EN 368 Resistance to penetration by liquids - 10% Sodium Hydroxide	0%	< 5%	0%	0%	0%	0%	0%	0%
EN 368 Resistance to penetration by liquids - n-heptane (undiluted)	> 20%	> 20%	0%	0%	0%	0%	17.7%	0%
EN 368 Resistance to penetration by liquids - Isopropanol	> 15%	> 15%	0%	0%	0%	0%	14.8%	0%

EN ISO 6529/EN374-3 Permeation Test - NBT 1.0µg/cm² ***

Acetone				Immediate	28 mins	> 540 mins		
Acetonitrile				Immediate	Immediate	> 540 mins		
Ammonia (anhydrous), 99.99%				Immediate	3 mins	60 mins		
Carbon Disulfide				5 mins	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 37%					> 540 mins	> 480 mins		> 480 mins
Hydrogen Chloride, 99.0%				Immediate	8 mins	> 540 mins		
Methanol				Immediate	> 540 mins	> 540 mins		
Sodium Hydroxide, 30%				> 480 mins	> 540 mins	> 540 mins		
Sulfuric Acid 96%				> 480 mins	> 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 0.1µg/cm² for M2500 Plus fabric. ✓ = Pass