## TRADE COMMISSIONER SERVICE ROME – TEXTILE SPECIFICATIONS FOR GOWN PRODUCTION

Note that different countries may utilize different standards so the cut-off may differ slightly or need unit conversions we can address accordingly with specifications upon receipt.

Types that can be investigated for use: -Polypropylene -Polyethylene -Polyester ( even polyester cotton blends) -spun-bound - melt blown -SMS / SMMS -Film laminate ( and combos to above)

<u>High level criteria</u> as per AAMI PB 70 classification Level 1 to 3 the norm starting point that we should have with initial screen. Note the tensile and tear strength at are optimal cut-off that apply to all three levels.

Property	Material type	Test Method	Level 1	Level 2	Level 3
Barrier performance	all	AATCC 42 AATCC 127	≤ 4.5 g NA	≤ 1.0 g ≥ 20cm	≤ 1.0 g ≥ 50cm
Tensile Strength	all	D5034	≥ 30N (≥ 7lbf)	≥ 30N (≥ 7lbf)	≥ 30N (≥ 7lbf)
Tear strength	Woven Nonwoven Films Non woven and film composites	Woven Nonwoven Films Non woven and film composites	≥ 10N (≥ 2.3lbf)	≥ 10N (≥ 2.3lbf)	≥ 10N (≥ 2.3lbf)

Critical is that the seam strength needs to meet a criteria of  $\geq$  30N ( $\geq$  7lbf) for AAMI level performance.

The level 2 to 3 for the spunbound / Meltblown / SMMS we would need to be in area of 25 gsm and above. For level 1 you can go as low as 18 gsm as we have done. Uniformity of material is key!

spunlace and spunbound only fabrics (no laminate) of 35-50 gsm offer level 1 performance.

For polyester and polypropylene above 30 gsm of polypropylene the polyester could be higher as a staring point even at 50 gsm.