

Medical Single Coated Film Tapes Selection Guide — Polyethylene

Properties ¹		Polyethylene						
		1503	1521	1523	1525L [†]	1526	9865 [†]	9865A
1. Sterilization ² (G=Gamma; E=Ethylene Oxide)		G*, E	G*, E	G*, E	G*, E	G*, E	G*, E	G*, E
2. Hypoallergenic		Yes	Yes	Yes	Yes	Yes	Yes	Yes
3. Repeat/Chronic Skin Contact		No	Yes	No	Yes	No	Yes	Yes
4. Conformable (L=Low; M=Medium; H=High)		M	M	M	M	M	M	M
5. Fluid Resistance		Yes	Yes	Yes	Yes	Yes	Yes	Yes
6. Color		Tan	Trans	Blush Tan	Trans	Trans	Trans	Trans
7. Printable Backing		Yes	Yes	Yes	Yes	Yes	Yes	Yes
8. Printable Liner		Yes	Yes	Yes	Yes	Yes	Yes	Yes
9. Heat Sealable		Yes	Yes	Yes	Yes	Yes	Yes	Yes
10. Tear by Hand		No	No	No	No	No	No	No
11. MVTR	gm/m ² /24 hr	None	None	None	None	None	None	None
12. Porosity	sec/100cc/in ²	None	None	None	None	None	None	None
13. Minimum Tensile	lbs/inch	5	8.0	5	5	5	5	5
	Newtons/25mm	22.2	35.6	22.2	22.2	22.2	22.2	22.2
14. Elongation	percentage	400	400	400	200	450	200	200
15. Typical Adhesion/ Stainless Steel	oz/inch	41	21	41	15	28	26	19
	Newtons/25mm	11.4	5.8	11.4	4.2	7.8	7.2	5.3
16. Tape Caliper	mil	5	6.4	5	4.4	5	4.4	3.8
	millimeters	0.13	0.16	0.13	0.11	0.13	0.11	0.10
17. Adhesive Caliper	mil	1.4	1.4	1.4	1.4	1.4	1.4	0.8
	millimeters	0.04	0.04	0.04	0.04	0.03	0.04	0.02
18. Film Caliper	mil	3.6	5.0	3.6	3.0	3.6	3.0	3.0
	millimeters	0.09	0.13	0.09	0.08	0.09	0.08	0.08
19. Liner Caliper	mil	4.9	6	4.9	4.9	4.9	4.9	2.5
	millimeters	0.12	0.15	0.12	0.12	0.12	0.12	0.06
20. Liner Weight	lbs/ream	63	83	63	63	63	63	54
21. Maximum Liner Release	gm/inch	50	30	50	40	50	40	30
	Newtons/25mm	0.49	0.29	0.49	0.39	0.49	0.39	0.39
22. Maximum Width	inches	48	48	48	48	48	48	48
	centimeters	122	122	122	122	122	122	122
23. Maximum Length	yards	500	360	500	500	500	1000	1250
	meters	457	329	457	457	457	914	1143
24. Approx. Roll Diameter	inches	15	15	15	15	15	21	19.5
	centimeters	38	38	38	38	38	53	49.5
25. Shelf Life	years	2	2	2	2	2	2	2

¹ Properties listed are based on limited testing and for comparative purposes only. It is the customer's responsibility to determine the final suitability of our products for use in their application.

² Recommended suitability based on the processability of product through typical sterilization conditions.

* Reduced adhesion levels and increased liner release may occur after gamma irradiation.

† Restricted for use as a component in certain product applications.

Medical Single Coated Film Tapes Selection Guide — Polyolefin Blends

Properties ¹		Polyolefin			
		1527 [†]	1527L	1527ENP	9835
1. Sterilization ² (G=Gamma; E=Ethylene Oxide)		G*, E	G*, E	G*, E	G*, E
2. Hypoallergenic		Yes	Yes	Yes	Yes
3. Repeat/Chronic Skin Contact		No	No	No	Yes
4. Conformable (L=Low; M=Medium; H=High)		M	M	M	M
5. Fluid Resistance		No	No	Yes	Yes
6. Color		Trans	Trans	Trans	White
7. Printable Backing		No	TBD	No	No
8. Printable Liner		N/A	Yes	Yes	Yes
9. Heat Sealable		Yes	Yes	Yes	Yes
10. Tear by Hand		Yes	Yes	No	No
11. MVTR	gm/m ² /24 hr	6200	6200	TBD	TBD
12. Porosity	sec/100cc/in ²	<1	<1	None	None
13. Minimum Tensile	lbs/inch	3	3	3	6.6
	Newtons/25mm	13.3	13.3	13.3	29.4
14. Elongation	percentage	50	50	50	300
15. Typical Adhesion/ Stainless Steel	oz/inch	14	14	14	18
	Newtons/25mm	3.9	3.9	3.9	5.0
16. Tape Caliper	mil	7.4	7.4	7.4	5.5
	millimeters	0.19	0.19	0.19	0.14
17. Adhesive Caliper	mil	1.8	1.8	1.8	1.5
	millimeters	0.05	0.05	0.05	0.04
18. Film Caliper	mil	5.6	5.6	5.6	4.0
	millimeters	0.14	0.14	0.14	0.10
19. Liner Caliper	mil	N/A	6	4.9	6
	millimeters	N/A	0.15	0.12	0.15
20. Liner Weight	lbs/ream	N/A	83	63	83
21. Maximum Liner Release	gm/inch	N/A	30	30	30
	Newtons/25mm	N/A	0.29	0.29	0.29
22. Maximum Width	inches	48	48	48	48
	centimeters	122	122	122	122
23. Maximum Length	yards	600	350	350	400
	meters	549	320	320	366
24. Approx. Roll Diameter	inches	14	14.6	14.6	15
	centimeters	36	37	37	38
25. Shelf Life	years	2	2	2	2

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Properties ¹	Polyester			Incise Films		Polyurethane			
	1516	9860 [†]	9952 [†]	9830	9948	9841 [†]	9832F	9832W [†]	9833
1. Sterilization ² (G=Gamma; E=Ethylene Oxide; S=Steam Autoclave)	G*, E, S	G*, E, S	G*, E, S	G*, E	G*, E	G*, E	G*, E	G*, E	G*, E
2. Hypoallergenic	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
3. Repeat Skin Contact	No	No	No	No	Yes	Yes	Yes	Yes	Yes
4. Conformable (L=Low; M=Medium; H=High)	L	No	No	H	H	H	H	H	H
5. Fluid Resistance	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
6. Color	Clear	Trans	Natural	Trans	Trans	Trans	Trans	Trans	Trans
7. Printable Backing	No	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes
8. Printable Liner/Carrier	N/A	Yes	Yes	Yes	Yes	No	No	No	No
9. Heat Sealable	No	No	No	Yes	No	No	No	No	No
10. Tear by hand	No	No	No	No	No	No	No	No	No
11. MVTR gm/m ² /24 hr	None	None	None	Low	400	800	1000	800	450
12. Porosity–Max sec/100cc/in ²	None	None	None	None	None	None	None	None	None
13. Minimum Tensile, MD	lbs/inch	20	TBD	TBD	2.2	3.0	5	3.5	3.5
	Newtons/25mm	89	TBD	TBD	9.8	13.3	22.2	15.6	15.6
14. Elongation percentage		50	<50	<50	130	500	500	500	500
15. Typical Adhesion/ Stainless Steel	oz/inch	60	NA	NA	>26	19	19	N/A	19
	Newtons/25mm	16.7	NA	NA	>7.2	5.3	5.3	N/A	5.3
16. Tape Caliper	mil	2.3	14.2	11.2	2.6	2.0	1.8	N/A	1.8
	millimeters	0.06	0.36	0.28	0.07	0.05	0.05	N/A	0.05
17. Adhesive Caliper	mil	1.3	1.2	1.2	0.9	1.0	1.0	N/A	1.0
	millimeters	0.03	0.03	0.03	0.02	0.03	0.03	N/A	0.03
18. Film Caliper	mil	1.0	13.0	10.0	1.7	1.0	0.8	0.8	0.8
	millimeters	0.03	0.33	0.25	0.04	0.03	0.02	0.02	0.02
19. Liner/Carrier Caliper	mil	N/A	4.9	4.9	4.6	4.9	3.5	4.8	4.8
	millimeters	N/A	0.12	0.12	0.12	0.12	0.09	0.12	0.12
20. Liner Weight lbs/ream	N/A	63	63	63	63	60	78	78	78
21. Maximum Liner Release gm/inch	N/A	50	50	60	60	16	49	49	—
	Newtons/25mm	N/A	0.49	0.49	0.59	0.59	0.15	0.48	0.48
22. Maximum Width	inches	48	48	48	48	48	46	46	46
	centimeters	122	122	122	122	122	117	117	117
23. Maximum Length	yards	750	400	400	600	650	750	700	700
	meters	686	366	366	549	594	686	640	640
24. Approx. Roll Diameter	inches	9.5	19	17.5	14.5	15	14	11.5	14
	centimeters	24	48	44.5	37	38	35.6	29.2	35.6
25. Shelf Life years	2	2	2	2	2	2	2	2	TBD

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