

Adhesive Tapes for Electrical Insulation

1 kgf = 9.80665N 1 N = 0.101972kgf

UL510FR = UL510 Flame retardant
UL file No.E59086
CSA file No.LR87359

Product name	Tape No.	Indicated thickness	Backing (thickness, mm)	Type of adhesive	Overall thickness mm	Standard color	Standard length m	Peel adhesion N/lf, W.25mm	Tensile strength N/lf, W.25mm	Elongation %	Breakdown voltage kV	Electrolytic corrosion coefficient	Features and standards met	Tape sample
PEI film adhesive tape	659S	#25	Polyether imide film (0.025)	Silicone-based	0.050		20	10.30 (1050)	66.2 (6.8)	10	6.4	1.00	Good for print on backside	659S #25
PEN film adhesive tape	635F	#25	Polyethylene naphthalate film (0.025)	Acrylic-based	0.055		20, 50	10.30 (1050)	152.0 (15.5)	50	6.4	1.00	UL510FR UL150°C	635F #25
	636F	#50	Polyethylene naphthalate film (0.050)	Acrylic-based	0.080		50	11.03 (1125)	245.2 (25.0)	50	10.0	1.00	UL510FR	636F #50
Polyester film adhesive tape	610S	#25	Polyester film (0.025)	Rubber-based	0.055	T, W, Bk B, R, Y, G	30	9.32 (950)	95.6 (9.8)	80	5.0	1.00	Thermosetting	610S #25
		#50	Polyester film (0.050)	Rubber-based	0.085	T, W, Bk B, R, Y, G	Trans: 30 Color: 20	11.03 (1125)	218.2 (22.3)	80	7.0	1.00		
	610K	#12	Polyester film (0.012)	Rubber-based	0.020	Y	20	4.66 (475)	39.2 (4.0)	80	3.4	1.00	Extra thin	610K #12
	611S	0.15	Polyester film (0.050)	Rubber-based	0.15	T, W R, Y	20	11.03 (1125)	218.2 (22.3)	80	7.0	1.00	Thermosetting	611S 0.15
	612S	#25	Polyester film (0.025)	Rubber-based	0.055	T, Y	30, 50	14.71 (1500)	95.6 (9.8)	80	5.0	1.00	Thermosetting Strong adhesion	612S #25
	630F	#25	Polyester film (0.025)	Acrylic-based	0.055	M, W, Bk B, R, Y, G	30, 50	10.30 (1050)	95.6 (9.8)	80	6.0	1.00	UL510FR UL130°C	
		#50	Polyester film (0.050)	Acrylic-based	0.085	M, W, Bk B, R, Y, G	30	12.26 (1250)	218.2 (22.3)	80	8.0	1.00	UL746A CTI≥600V CSA130°C	
	631S	#12	Polyester film (0.012)	Acrylic-based	0.030	T, W, Bk B, R, Y, G	30	8.58 (875)	39.2 (4.0)	80	4.0	1.00	UL130°C	
		#25	Polyester film (0.025)	Acrylic-based	0.050	T, W, Bk B, R, Y, G	30	12.26 (1250)	95.6 (9.8)	80	6.0	1.00	UL130°C, UL746A CTI≥600V, CSA130°C	#25
		#38	Polyester film (0.038)	Acrylic-based	0.070	T, W, Bk B, R, Y, G	30	14.71 (1500)	147.1 (15.0)	80	7.0	1.00	UL130°C	
		#50	Polyester film (0.050)	Acrylic-based	0.085	T, W, Bk B, R, Y, G	30	17.16 (1750)	218.2 (22.3)	80	8.0	1.00	UL130°C UL746A CTI≥600V	
		#75	Polyester film (0.075)	Acrylic-based	0.115	T, Y	30	22.06 (2250)	245.2 (25.0)	80	9.5	1.00	UL130°C	
	632S	#25	Polyester film (0.025)	Acrylic-based	0.050	T, W, Bk B, R, Y, G	30	23.29 (2375)	343.0 (35.0)	80	14.6	1.00	UL130°C	
		#50	Polyester film (0.050)	Acrylic-based	0.085	T, W, Bk B, R, Y, G	30	11.03 (1125)	95.6 (9.8)	80	6.0	1.00	UL130°C, UL746A CTI≥600V, CSA130°C	632S
	633S	#25	Polyester film (0.025)	Acrylic-based	0.050	T, B, R, G	30	13.48 (1375)	218.2 (22.3)	80	8.0	1.00	UL130°C, UL746A CTI≥600V	
#100		Polyester film (0.100)	Acrylic-based	0.14	T	20	10.05 (1025)	95.6 (9.8)	80	6.0	1.00	Can be used at low temperature Hard to be flagging	#100	
Non Halogen Flame retardant Polyester film adhesive tape	638F	#25	Polyester film (0.025)	Acrylic-based	0.058	M, Y	30	9.50 (968)	95.6 (9.8)	80	6.0	1.00	No use halogenated flame retardant UL510FR UL130°C	638F #25
Polyester cloth adhesive tape	551F		Polyester cloth (0.18)	Rubber-based	0.25	W, Bk	30	8.58 (875)	588.4 (60.0)	30	3.5	-	UL510FR	
	551S		Polyester cloth (0.18)	Rubber-based	0.23	W, Bk	30	7.35 (750)	588.4 (60.0)	30	3.5	-	Thermosetting	
Combination adhesive tape	673F	0.27	Polyester film (0.038) +polyester non-woven fabric (0.18)	Acrylic-based	0.27	W	30	14.71 (1500)	203.5 (20.8)	45	5.6	1.00	Varnish-impregnated type UL510FR UL130°C UL746A CTI≥600V	
		0.5	Polyester film (0.050) +polyester non-woven fabric (0.35)	Acrylic-based	0.50	W	30	11.03 (1125)	343.2 (35.0)	30	6.0	1.00		
		1.0	Polyester film (0.050) +polyester non-woven fabric (0.35) x2 layers	Acrylic-based	1.0	W	15	11.03 (1125)	711.0 (72.5)	30	8.9	1.00		
	673A	0.27	Polyester film (0.038) +polyester non-woven fabric (0.18)	Acrylic-based	0.27	W	30	13.73 (1400)	196.1 (20.0)	47	5.3	1.00	Varnish-impregnated type UL130°C UL746A CTI≥600V	673A 0.27
		0.5	Polyester film (0.050) +polyester non-woven fabric (0.38)	Acrylic-based	0.50	W	30	23.78 (2425)	294.2 (30.0)	40	6.4	1.00		
	673S	0.42	Polyester film (0.025) +polyester non-woven fabric (0.35)	Acrylic-based	0.42	W	50	12.26 (1250)	220.6 (22.5)	30	6.0	1.00	Varnish-impregnated type	Note 1)
	687S		Polyester cloth (0.18) +polyester cloth (0.18)	Rubber-based	0.45		20	8.58 (875)	1225.8(125.0)	30	5.0	1.00	Thermosetting	
850F	0.41	Polyester film (0.075) +polyester non-woven fabric (0.15) +polyester film (0.025)	Acrylic-based	0.41		20	26.97 (2750)	424.1 (43.3)	65	8.4	1.00	UL510FR, UL130°C		