

Adhesive Tapes for Electrical Insulation

UL510FR = UL510 Flame retardant
UL file No.E56086
CSA file No.LR87359

1 kgf = 9.80665N 1 N = 0.101972kgf

Product name	Tape No.	Indicated thickness	Backing (thickness, mm)	Type of adhesive	Overall thickness mm	Standard color	Standard length m	Peel adhesion N/gr. W.25mm	Tensile strength N/gr. W.25mm	Elongation %	Breakdown voltage kV	Electrolytic corrosion coefficient	Features and standards met	Tape sample
Glass cloth adhesive tape	540S	0.18	Glass cloth (0.13)	Silicone-based	0.18		30, 60	10.30 (1050)	66.2 (6.8)	10	6.4	1.00	Good for print on backside	659S #25
	541F	0.18	Glass cloth (0.13)	Rubber-based	0.21		30	10.30 (1050)	152.0 (15.5)	50	6.4	1.00	UL510FR UL150°C	635F #25
	541S	0.18	Glass cloth (0.13)	Rubber-based	0.18		30	11.03 (1125)	245.2 (25.0)	50	10.0	1.00	UL510FR	636F #50
	542F	0.18	Glass cloth (0.13)	Acrylic-based	0.18		33	9.32 (950)	95.6 (9.8)	80	5.0	1.00	Thermosetting	610S #25
Combination adhesive tape (include Glass cloth)	685S	0.4	Glass cloth (0.13) +Glass cloth (0.18)	Silicone-based	0.43		20	11.03 (1125)	218.2 (22.3)	80	7.0	1.00	Thermosetting	
	686S		Polyester film (0.025) +Glass cloth (0.13)	Rubber-based	0.24		30	4.66 (475)	39.2 (4.0)	80	3.4	1.00	Extra thin	610K #12
Nomex® adhesive tape	560S	#2	Nomex® paper (0.050)	Acrylic-based	0.095		50	11.03 (1125)	218.2 (22.3)	80	7.0	1.00	Thermosetting	611S 0.15
		#3	Nomex® paper (0.080)	Acrylic-based	0.13		50	14.71 (1500)	95.6 (9.8)	80	5.0	1.00	Thermosetting Strong adhesion	612S #25
		#5	Nomex® paper (0.13)	Acrylic-based	0.19		30	10.30 (1050)	95.6 (9.8)	80	6.0	1.00	UL510FR UL130°C UL746A CTI≥600V CSA130°C	
	561S	#2	Nomex® paper (0.050)	Silicone-based	0.12		50	12.26 (1250)	218.2 (22.3)	80	8.0	1.00	UL130°C	
		#3	Nomex® paper (0.080)	Silicone-based	0.15		50	8.58 (875)	39.2 (4.0)	80	4.0	1.00	UL130°C	
		#7	Nomex® paper (0.18)	Silicone-based	0.25		20	12.26 (1250)	95.6 (9.8)	80	6.0	1.00	UL130°C, UL746A CTI≥600V, CSA130°C	#25
	562S	#2	Nomex® paper (0.050)	Silicone-based	0.12		50	14.71 (1500)	147.1 (15.0)	80	7.0	1.00	UL130°C	
	564S	#2	Nomex® paper (0.050)	Silicone-based	0.090		500	17.16 (1750)	218.2 (22.3)	80	8.0	1.00	UL130°C UL746A CTI≥600V	
Combination adhesive tape (include Nomex® paper)	681S	#6	Nomex® paper (0.080) +Nomex® paper (0.080)	Acrylic-based	0.26		30	22.06 (2250)	245.2 (25.0)	80	9.5	1.00	UL130°C	
		#8	Nomex® paper (0.080) +Nomex® paper (0.13)	Acrylic-based	0.31		30	23.29 (2375)	343.0 (35.0)	80	14.6	1.00	UL130°C	
Kapton® adhesive tape	650S	#12	Kapton® film (0.012)	Silicone-based	0.035		20	11.03 (1125)	95.6 (9.8)	80	6.0	1.00	UL130°C , UL746A CTI≥600V, CSA130°C	632S
		#25	Kapton® film (0.025)	Silicone-based	0.050		20, 50	13.48 (1375)	218.2 (22.3)	80	8.0	1.00	UL130°C, UL746A CTI≥600V	
		#50	Kapton® film (0.050)	Silicone-based	0.080		20	10.05 (1025)	95.6 (9.8)	80	6.0	1.00	Can be used at low temperature Hard to be flagging	#100
		652S	#25	Kapton® film (0.025)	Silicone-based	0.070		30	15.32 (1560)	335.9 (34.3)	80	14.6	1.00	No use halogenated flame retardant UL510FR UL130°C
	653F	#25	Kapton® film (0.025)	Acrylic-based	0.055		50	9.50 (968)	95.6 (9.8)	80	6.0	1.00		
	653S	#25	Kapton® film (0.025)	Acrylic-based	0.055		50	8.58 (875)	588.4 (60.0)	30	3.5	—	UL510FR	
	6551	#100	Kapton® film (0.100)	Silicone-based	0.128			7.35 (750)	588.4 (60.0)	30	3.5	—	Thermosetting	
	6561	#25	Kapton® film (0.025)	Silicone-based	0.060			14.71 (1500)	203.5 (20.8)	45	5.6	1.00	Varnish-impregnated type UL510FR UL130°C UL746A CTI≥600V	
TFE film adhesive tape	8410	0.08	TFE film (0.050)	Silicone-based	0.080		10	11.03 (1125)	343.2 (35.0)	30	6.0	1.00		
		0.13	TFE film (0.080)	Silicone-based	0.13		10	11.03 (1125)	711.0 (72.5)	30	8.9	1.00		
		0.18	TFE film (0.13)	Silicone-based	0.18		10	13.73 (1400)	196.1 (20.0)	47	5.3	1.00	Varnish-impregnated type UL130°C UL746A CTI≥600V	673A 0.27
		0.23	TFE film (0.18)	Silicone-based	0.23		10	23.78 (2425)	294.2 (30.0)	40	6.4	1.00	UL746A CTI≥600V	#25
PPS film adhesive tape	480	#25	Polyphenylene sulfide film (0.025)	Silicone-based	0.055		20, 50	12.26 (1250)	220.6 (22.5)	30	6.0	1.00	Varnish-impregnated type	Note 1)
	4812	#25	Polyphenylene sulfide film (0.025)	Acrylic-based	0.040			8.58 (875)	1225.8 (125.0)	30	5.0	1.00	Thermosetting	
Poly-Urethane resin impregnated	532F	0.15	polyester non-woven fabric	Acrylic-based	0.15		30	26.97 (2750)	424.1 (43.3)	65	8.4	1.00	UL510FR UL130°C UL746A CTI≥600V	