

Adhesive Tapes for Electrical Insulation

UL510FR = UL510 Flame retardant

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(gf) / W.25mm	Tensile strength N(kgf) / W.25mm	Elongation %	Breakdown voltage kV	Electrolytic corrosion coefficient	Features and standards met	Tape sample	
Combination adhesive tape	684F	0.42	Polyester film (0.025) +polyester non-woven fabric (0.35)	Acrylic-based	0.42	W	50	11.03 (1125)	220.6 (22.5)	30	6.0	1.00	UL510FR		
	684S	0.25	Polyester film (0.025) +polyester non-woven fabric (0.15)	Acrylic-based	0.25	W, B, Y	50	11.03 (1125)	171.2 (17.5)	50	5.0	1.00	UL130°C CSA130°C	684S	0.25
		0.42	Polyester film (0.025) +polyester non-woven fabric (0.35)	Acrylic-based	0.42	W, B, Y	50	11.03 (1125)	220.6 (22.5)	30	6.0	1.00			
Acetate cloth adhesive tape	570F		Acetate cloth (0.18)	Rubber-based	0.25	W, Bk	30, 60	8.58 (875)	156.9 (16.0)	20	3.7	—	UL510FR		
	570S		Acetate cloth (0.18)	Rubber-based	0.23	W, Bk	30	8.58 (875)	156.9 (16.0)	20	3.7	—	Thermosetting		
	571S		Acetate cloth (0.18)	Rubber-based	0.23	Bk	30	8.58 (875)	156.9 (16.0)	20	3.7	—	Thermosetting		
	572S		Acetate cloth (0.18)	Acrylic-based	0.23	W, Bk	30	8.34 (850)	156.9 (16.0)	20	3.7	—	For solvent-free varnish		
	578F	0.18	Acetate cloth (0.18)	Rubber-based	0.26	W	30	8.25 (841)	156.9 (16.0)	20	6.3	—	UL510FR	578F	
Combination adhesive tape (include acetate cloth)	691S		Polyester film (0.025) +Acetate cloth (0.18)	Rubber-based	0.27		30	12.26 (1250)	245.2 (25.0)	20	6.5	1.00	Thermosetting		
	692S		Acetate cloth (0.18) +Acetate cloth (0.18)	Rubber-based	0.42		30	9.81 (1000)	306.5 (31.3)	20	6.0	1.00	Thermosetting		
Cotton cloth adhesive tape	590F		Cotton cloth (0.16)	Rubber-based	0.23	W, Bk	30	7.35 (750)	269.7 (27.5)	7	2.4	—	UL510FR		
	590S		Cotton cloth (0.16)	Rubber-based	0.21	W, Bk	30	7.35 (750)	269.7 (27.5)	7	2.4	—	Thermosetting		
Crepe tape	251S	0.18	Crepe paper (0.18)	Rubber-based	0.23		60	8.58 (875)	85.8 (8.8)	25	1.6	—	Thermosetting		
	252S		Crepe paper (0.18)	Rubber-based	0.23		60	11.03 (1125)	85.8 (8.8)	25	1.6	—		252S	
	253S		Crepe paper (0.18)	Acrylic-based	0.23		60	11.03 (1125)	85.8 (8.8)	25	1.7	—	Varnish resistant	253S	
Flat tape	580S		Special kraft paper (0.100)	Rubber-based	0.15		60	13.24 (1350)	196.1 (20.0)	—	1.5	—	Thermosetting		
	582S		Special kraft paper (0.100)	Acrylic-based	0.15		60	13.24 (1350)	196.1 (20.0)	—	1.5	—		582S	
Combination Adhesive tape (Include paper)	690S	≠25	Polyester film (0.025) +Special kraft paper (0.090)	Rubber-based	0.18		50	12.26 (1250)	196.1 (20.0)	8	5.5	—	Thermosetting		
		≠38	Polyester film (0.038) +Special kraft paper (0.090)	Rubber-based	0.18		50	12.26 (1250)	294.2 (30.0)	8	6.0	—			
Vinyl adhesive tape	302	0.2	Soft vinyl chloride film	Rubber-based	0.20	T, W, Bk, Gy, B, R, Y, G etc.	20	3.87 (395)	71.0 (7.2)	180	9.5	1.00	JIS C2336 (Approval No.3877)		
	303	0.2	Soft vinyl chloride film	Rubber-based	0.20	W, Bk, Gy, B, R, Y, G	20	6.45 (658)	71.0 (7.2)	180	9.5	1.00	UL510 CSA		
	305F	0.2	Soft vinyl chloride film	Rubber-based	0.20	W, Bk, Gy, B, R, Y, G	20	3.87 (395)	71.0 (7.2)	180	9.5	1.00	Flame retardant: Suitable for rolling stock material combustion tests UL510FR		
Ty-tac tape	420	0.5	Polyethylene film	Rubber-based	0.50		10	Overlapped method (20mm) 29.42 (3000)	49.0 (5.0)	450	10.0	—	Self-fusing Tokyo ElectricPower spec. 6Y-23	420	0.5

UL510FR = UL510 Flame retardant
UL file No.E56086 (except for No.303), No.E38437 (No.303)
CSA file No.LR87359 (No.684S), No.LR22793 (No.303)

Adhesive Tapes for Electrical Insulation / Spacer Tapes

Product name	Tape No.	Indicated thickness	Backing (thickness, mm)	Type of adhesive	Standard color	Peel adhesion N(gf) / W.25mm	Tensile strength N(kgf) / W.25mm	Elongation %	Breakdown voltage kV	Electrolytic corrosion coefficient	Hardness	Features	Tape sample
Silicone rubber adhesive tape	9012	0.10	Silicone rubber (0.045) +polyester film (0.025)	Acrylic-based	T	9.85 (1004)	139.8 (14.4)	100	6.4	1.00	30	Good cushioning Hard to slip With release liner	9012 0.10
	9020	0.15	Silicone rubber (0.070) +polyester film (0.050)	Acrylic-based	Bk	14.50 (1479)	275.0 (28.0)	120	8.6	1.00	50	Good cushioning Hard to slip With release liner	
	9021	0.4	Silicone rubber (0.025) +polyester film (0.100)	Acrylic-based	Bk	12.50 (1275)	500.0 (51.0)	120	24.4	1.00	50	Good cushioning Hard to slip With release liner	9021 0.4

Abbreviation for Standard color: T: Transparent, W: White, Gy: Grey, Bk: Black, B: Blue, R: Red, Y: Yellow, G: Green ※ Hardness is only for silicone rubber: JIS K6253 Durometer type A

※ The above values are typical examples. (Measured value is different from the above value.)