

Adhesive Tapes for Electrical Insulation and Electronic Equipment



1. Electrolytic Corrosion Coefficient

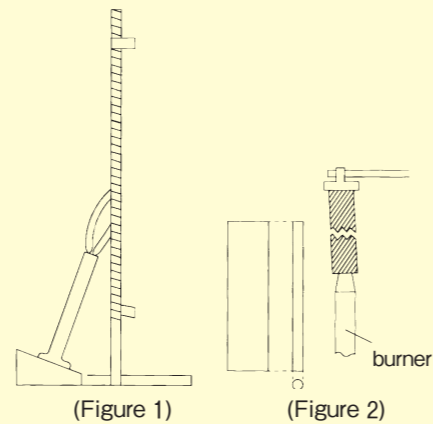
The electrolytic corrosion coefficient is a coefficient which indicates the degree of electrolytic corrosion of adhesive tape, Teraoka's testing method is based on 4.4 of JIS C2107⁻¹⁹⁹¹ (Testing Methods of Pressure-Sensitive Adhesive Tapes for Electrical Insulation.)

2. Flame-retardant Tape

Flame-retardant tape is made of material which has advanced self-extinguishing properties, making it highly resistant to flame. When subjected to strong flame, the rate of combustion is lower and spread of the burn slower than in the case of ordinary tape.

UL Flame test

	UL 510(FR)	UL 94	
Title	Insulating tape (FR: Flame test)	Test for Flammability of Plastic Materials for Parts in Devices and Appliances	
Class		V	VTM
Materials	Insulating tape	Plastic materials for parts in devices and appliances	Thin materials
Specimen	A steel rod is to be rotated, and the fixture tilted so that the tape wraps with an overlap equal to one half the width of the tape (Figure 1)	127mm×12.7mm A thickness of no more than 12.7mm	(Figure 2)
Grade	Flame retardant	V-0, 1, 2	VTM-0, 1, 2



3. Index

Tape No.	Page	Tape No.	Page	Tape No.	Page	Tape No.	Page	Tape No.	Page	Tape No.	Page	Tape No.	Page	Tape No.	Page	Tape No.	Page
1825	9	4920	3	5661	1	6070	7	646S	7	684F	3	7080	11	7642	11	796	9
1829	9	5100	13	570F	5	609	7	647	7	684S	3	7082	11	7643	11	8303	9
250	9	5110	13	570S	5	6093	7	648	7	686S	1	7084	11	7644	11	8304	9
251S	5	5113	13	571S	5	610S	3	650S	1,7	687S	3	7090	13	7647	11	831S	9
252S	5	5120	13	576F	5	630F	3	652S	1,7	690S	5	7091	13	765H	11	8313	9
253S	5	5140	13	578F	5	630F2	3	653F	1	691S	5	7092	13	767	11	8315	9
257	9	5150	13	579R	5	631S	3	653S	1	692S	5	7093	13	7691	9	8323	9
260	7	532F	1	579S	5	631S2	3	654S	7	7021	11	7225	9,11	7692	9	833	9
272	9	540S	1	580S	5	631U	3	6542	7	7027	13	725F	11	7694	9	8410	1,7
290	7	541S	1	584C	9	632S	3	6563	7	7029	13	745	11	7696	9	9013	5
293	7	551F	5	587	9	632S2	3	6564	7	705	11	7470	11	7741	9	9014	5
302	5	551S	5	6010	7	633K	3	6670	13	7051	11	749	11	777	11	9020	5
420	5	560S	1	6011	7	633L	3	6671	13	7053	11	7570	11	7770	11	9022	5
465	7	561S	1	6012	7	635F	3	6672	13	7054	11	760H	11	7840	11		
480	3	562S	1	602	7	636F	3	673F	3	707	11,13	7602	11	791	9		
4812	3	564S	1	603	7	638F	3	678F	3	7070	11	7620	11	792	9,13		
4913	3	566F	1	605	7	6404	7	681S	1	7075	11	7641	11	795	9		

4. Related Standards

- (1) UL ; Underwriters Laboratories Inc. (U.S.A.)
 (2) CSA ; Canadian Standards Association (CANADA)

5. Notes

- Please keep the tapes at a suitable temperature and moisture and do not have them exposed to the sun directly.
- Before using the tapes, please make sure by testing that they are fit for your use and comply with your requirements.
- The tapes may discontinue to be supplied and/or their specifications may be modified without any prior notice to you.
- Don't apply to human body or skin.



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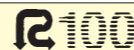
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Adhesive Tapes for Electrical Insulation

1 kgf = 9.80665N 1 N = 0.101972kgf

UL510FR = UL510 Flame retardant
UL file No.E56086

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	
Kapton® adhesive tape	650S	#12	Kapton® film (0.012)	Silicone-based	0.035		20	4.41 (450)	78.5 (8.0)	50	5.0	1.00	Heat resistant UL510FR UL temperature rated 200°C Optional extra: With release liner type No.650R	650S #12	
		#25	Kapton® film (0.025)	Silicone-based	0.050		20, 50	5.39 (550)	122.6 (12.5)	50	7.0	1.00		650S #25	
		#50	Kapton® film (0.050)	Silicone-based	0.080		20	6.13 (625)	245.2 (25.0)	50	10.0	1.00		650S #50	
	652S	#25	Kapton® film (0.025)	Silicone-based	0.070		30	7.35 (750)	122.6 (12.5)	50	7.0	1.00	Thick adhesive type UL510FR UL temperature rated 200°C	652S #25	
	653F	#25	Kapton® film (0.025)	Acrylic-based	0.055		50	5.39 (550)	122.6 (12.5)	50	7.0	1.00	UL510FR UL temperature rated 200°C	653F #25	
	653S	#25	Kapton® film (0.025)	Acrylic-based	0.055		50	7.35 (750)	122.6 (12.5)	50	7.0	1.00		653S #25	
Halogen free flame retardant Polyimide film adhesive tape	4913	#25	Polyimide film(0.025)	Acrylic-based	0.055		50	9.07 (924)	129.2 (12.5)	50	7.0	1.00	Halogen free flame retardant UL510FR regulation by our internal test	4913 #25	
Low VOC (toluene free) Halogen free flame retardant Nomex® adhesive tape	5661	#2	Nomex® paper (0.050)	Acrylic-based	0.095		50	12.20 (1244)	116.3 (11.8)	10	2.2	1.00	Low VOC (toluene free) Halogen free flame retardant, UL510FR, UL155°C	5661 #2	
Halogen free flame retardant Nomex® adhesive tape	566F	#2	Nomex® paper (0.050)	Acrylic-based	0.095		50	12.50 (1275)	116.8 (11.9)	9	2.0	1.00	Halogen free flame retardant, UL510FR, UL150°C	566F #2	
		#3	Nomex® paper (0.080)	Acrylic-based	0.13		50	13.48 (1375)	78.1 (8.0)	12	3.3	1.00	Halogen free flame retardant, UL510FR, UL temperature rated 200°C	566F #3	
		#5	Nomex® paper (0.13)	Acrylic-based	0.19		30	13.68 (1395)	138.3 (14.1)	14	5.1	1.00		566F #5	
Nomex® adhesive tape	560S	#2	Nomex® paper (0.050)	Acrylic-based	0.095		50	12.26 (1250)	105.4 (10.8)	8	2.5	1.00	UL510FR UL temperature rated 155°C	560S #2	
		#3	Nomex® paper (0.080)	Acrylic-based	0.13		50	12.26 (1250)	205.9 (21.0)	12	3.3	1.00	UL510FR UL temperature rated 200°C		#3
		#5	Nomex® paper (0.13)	Acrylic-based	0.19		30	14.71 (1500)	392.3 (40.0)	14	5.5	1.00	UL510FR UL temperature rated 200°C		#5
	561S	#2	Nomex® paper (0.050)	Silicone-based	0.12		50	12.26 (1250)	105.4 (10.8)	8	2.5	1.00	UL510FR UL temperature rated 200°C	561S #2	
		#3	Nomex® paper (0.080)	Silicone-based	0.15		50	12.26 (1250)	205.9 (21.0)	12	3.3	1.00		561S #3	
		#7	Nomex® paper (0.18)	Silicone-based	0.25		20	14.71 (1500)	588.4 (60.0)	16	7.0	1.00		561S #7	
	562S	#2	Nomex® paper (0.050)	Silicone-based	0.12		50	12.26 (1250)	105.4 (10.8)	8	2.5	1.00	Strong adhesion (After heat-treat) UL510FR UL temperature rated 200°C	562S #2	
	564S	#2	Nomex® paper (0.050)	Silicone-based	0.090		500	11.62 (1185)	105.4 (10.8)	8	3.3	1.00	halogen free type	564S #2	
	Combination adhesive tape (include Nomex® paper)	681S	#6	Nomex® paper (0.080) +Nomex® paper (0.080)	Acrylic-based	0.26		30	12.26 (1250)	367.7 (37.5)	12	6.5	1.00	UL510FR	681S #6
Glass cloth adhesive tape	540S	0.18	Glass cloth (0.13)	Silicone-based	0.18		30	8.58 (875)	612.9 (62.5)	5	3.0	—	UL510FR UL temperature rated 200°C	540S 0.18	
		541S	0.18	Glass cloth (0.13)	Rubber-based	0.18		30	8.58 (875)	612.9 (62.5)	5	3.0	—	Thermosetting	541S 0.18
Combination adhesive tape (include Glass cloth)	686S		Polyester film (0.025) +Glass cloth (0.13)	Rubber-based	0.24		30	9.81 (1000)	686.5 (70.0)	5	6.0	1.00	Thermosetting	686S	
PTFE film adhesive tape	8410	0.08	PTFE film (0.050)	Silicone-based	0.080		10	6.62 (675)	57.0 (5.8)	250	6.5	1.00	UL510FR	8410 0.08	
		0.13	PTFE film (0.080)	Silicone-based	0.13		10	9.07 (925)	120.1 (12.3)	300	6.9	1.00		8410 0.13	
		0.18	PTFE film (0.13)	Silicone-based	0.18		10	11.28 (1150)	169.2 (17.3)	300	10.9	1.00		8410 0.18	
		0.23	PTFE film (0.18)	Silicone-based	0.23		10	12.26 (1250)	183.9 (18.8)	350	10.9	1.00		8410 0.23	
Poly-Urethane resin impregnated adhesive tape	532F	0.15	Polyester non-woven fabric	Acrylic-based	0.15		30	12.73 (1298)	244.7 (24.9)	25	5.3	1.00	UL510FR UL temperature rated 155°C UL746A CTI ≥600V	532F 0.15	
		0.2	Polyester non-woven fabric	Acrylic-based	0.20		30	14.41 (1469)	256.1 (26.1)	25	6.5	1.00		532F 0.2	

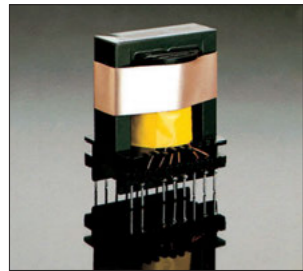
* The above values are typical examples measured using JIS or our corporate testing method.

Adhesive Tapes for Electrical Insulation

UL510FR = UL510 Flame retardant
UL file No.E56086
CSA Legacy No. CA87359

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	
PPS film adhesive tape	480	#25	Polyphenylene sulfide film(0.025)	Silicone-based	0.055		20	8.09 (825)	104.4 (12.7)	40	4.0	1.00	UL510FR UL temperature rated 155°C	480 #25	
	4812	#25	Polyphenylene sulfide film(0.025)	Acrylic-based	0.040		50	12.50 (1275)	104.4 (12.7)	40	4.0	1.00		4812 #25	
PEEK film adhesive tape	4920	0.012	PEEK film	Acrylic-based	0.012	T	50	4.55 (464)	24.5 (2.50)	40	2.9	—	Heat resistant, Thin, With release liner	4920 0.012	
PEN film adhesive tape	635F	#25	Polyethylene naphthalate film(0.025)	Acrylic-based	0.055		20	10.30 (1050)	152.0 (15.5)	50	6.4	1.00	UL510FR UL temperature rated 150°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	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	30	11.03 (1125)	218.2 (22.3)	80	7.0	1.00		610S #50	
	630F	#25	Polyester film(0.025)	Acrylic-based	0.055	M, W, Bk, B, R, Y, G	30	10.30 (1050)	95.6 (9.8)	80	6.0	1.00	UL510FR UL temperature rated 130°C UL746A CTI≥600V CSA130°C	630F #25	
	630F2	#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	UL510FR, UL temperature rated 130°C UL746A CTI Backing side500V Adhesive side≥600V	630F2 #50	
	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	UL temperature rated 130°C	631S #12	
		#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	UL temperature rated 130°C, UL746A CTI≥600V, CSA130°C		#25
		#38	Polyester film(0.038)	Acrylic-based	0.070	T	30	14.71 (1500)	147.1 (15.0)	80	7.0	1.00	UL temperature rated 130°C		#38
	631S2	#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	UL temperature rated 130°C, UL746A CTI≥600V	631S2 #50	
	631S	#75	Polyester film(0.075)	Acrylic-based	0.115	T	30	22.06 (2250)	245.2 (25.0)	80	9.5	1.00	UL temperature rated 130°C	631S #75	
		#100	Polyester film(0.100)	Acrylic-based	0.15	T	20	23.29 (2375)	343.0 (35.0)	80	14.6	1.00			#100
	632S	#25	Polyester film(0.025)	Acrylic-based	0.050	T, W, Bk, B, R, Y, G	30	11.03 (1125)	95.6 (9.8)	80	6.0	1.00	UL temperature rated 130°C, UL746A CTI≥600V CSA130°C	632S #25	
	632S2	#50	Polyester film(0.050)	Acrylic-based	0.085	T, W, Bk, B, R, Y, G	30	13.48 (1375)	218.2 (22.3)	80	8.0	1.00	UL temperature rated 130°C, UL746A CTI≥600V	632S2 #50	
	633K	0.010	Polyester film	Acrylic-based	0.008	W	100	5.75 (586)	25.3 (2.5)	60	1.7	1.00	Thin, With film release liner	633K 0.010	
	633L	0.009	Polyester film	Acrylic-based	0.009	Bk	100	4.92 (501)	21.7 (2.2)	45	—	—	Thin type, With film release liner Low VOC product (Toluene and xylene free adhesive)	633L 0.009	
631U	#12	Polyester film(0.012)	Acrylic-based	0.025	B, R	30	8.00 (815)	39.2 (4.0)	80	4.0	1.00	Thin	631U #12		
Halogen free flame retardant Polyester film adhesive tape	638F	#25	Polyester film(0.025)	Acrylic-based	0.058	M, W, Bk, B, Y, G	50	9.50 (968)	95.6 (9.8)	80	6.0	1.00	Halogen free flame retardant UL510FR UL temperature rated 130°C CTI≥600V	638F #25	
Halogen free flame retardant Combination adhesive tape	678F	0.27	Polyester film(0.038) +Polyester non-woven fabric(0.18)	Acrylic-based	0.27	W	30	28.54 (2910)	194.0 (19.7)	70	6.2	1.00	Halogen free flame retardant UL510FR, UL temperature rated 130°C, CTI≥600V	678F 0.27	
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	673F 0.27	
		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	UL temperature rated 130°C UL746A CTI≥600V		0.5
	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	687S	
	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	684F 0.42	
	684S	0.25	Polyester film(0.025) +polyester non-woven fabric(0.15)	Acrylic-based	0.25	W	50	11.03 (1125)	171.2 (17.5)	50	5.0	1.00	UL temperature rated 130°C CSA130°C	684S 0.25	
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	0.42			



Abbreviation for Standard color; T: Transparent. W: White. M: Milky. Bk: Black, B: Blue. R: Red, Y: Yellow, G: Green

* The above values are typical examples measured using JIS or our corporate testing method.

Adhesive Tapes for Electrical Insulation

1 kgf = 9.80665N

1 N = 0.101972kgf

UL510FR = UL510 Flame retardant
UL file No.E56086

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	
Low VOC (toluene free) Acetate cloth adhesive tape	579R		Acetate cloth (0.18)	Acrylic-based	0.23	W, Bk, B	30	14.00 (1428)	150.0 (15.3)	20	—	—	Low VOC(Toluene free), With release liner Great flexibility to bumpy surface	579R	
	579S		Acetate cloth (0.18)	Acrylic-based	0.21	W,Bk	50	14.00 (1428)	173.0 (17.6)	25	—	—	Low VOC(Toluene free), Non release liner Great flexibility to bumpy surface	579S	
Non-halogen flame retardant Acetate cloth adhesive tape	578F		Acetate cloth (0.18)	Rubber-based	0.26	W	30	8.25 (841)	156.9 (16.0)	22	6.3	—	Halogen free flame retardant, UL510FR, Low bad smell	578F	
	576F		Acetate cloth (0.18)	Acrylic-based	0.22	W,Bk	30	11.75 (1198)	177.5 (18.0)	25	1.6	—	Halogen free flame retardant, UL510FR Excellent for harness unity	576F	
Acetate cloth adhesive tape	570F		Acetate cloth (0.18)	Rubber-based	0.25	W, Bk	30	8.58 (875)	156.9 (16.0)	20	3.7	—	UL510FR	570F	
	570S		Acetate cloth (0.18)	Rubber-based	0.23	W, Bk	30	8.58 (875)	156.9 (16.0)	20	3.7	—	Thermosetting	570S	
	571S		Acetate cloth (0.18)	Rubber-based	0.23	Bk	30	8.58 (875)	156.9 (16.0)	20	3.7	—	Thermosetting Adhesive is transparent	571S	
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	691S	
	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	692S	
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	251S	0.18
	252S		Crepe paper (0.18)	Acrylic-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	
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	551F	
	551S		Polyester cloth (0.18)	Rubber-based	0.23	W, Bk	30	7.35 (750)	588.4 (60.0)	30	3.5	—	Thermosetting	551S	
Flat tape	580S		Special kraft paper (0.100)	Rubber-based	0.15		60	13.24 (1350)	196.1 (20.0)	—	1.5	—	Thermosetting	580S	
Combination Adhesive tape (include paper)	690S	#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	—	Thermosetting	690S	#38
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		302	0.2
Ty-tac tape	420	0.5	Polyethylene film	Rubber-based	0.50		10	Overlapping method/20mm 29.42 (3000)	49.0 (5.0)	450	10.0	—	Self-fusing	420	0.5

Silicone rubber adhesive tape

- Silicone rubber is excellent heat resistance, cold resistance, sealing, releasing cushion, friction and electrical insulation.
- Unnecessary laminate process since integrate rubber and adhesive.

Product name	Tape No.	Indicated thickness	Backing (thickness, mm)	Type of adhesive	Overall thickness mm	Standard color	Rubber surface	Peel adhesion N(gf)/W.25mm	Features, applications and standards met	Tape sample										
Silicone rubber adhesive tape	9013	0.1	Silicone rubber + polyester film	Acrylic-based	0.10	T	flat	18.80 (1917)	General purpose	9013	0.1									
	9014	0.1	Silicone rubber + polyester film	Acrylic-based	0.10	T	flat	25.00 (2550)	Silicone rubber surface can be strong stick then easy to remove also have excellent transparency.	9014	0.1									
	9020	0.15	Silicone rubber + polyester film	Acrylic-based	0.15	Bk	diamond	15.00 (1530)	Hard to slip, With release liner	9020	0.15									
	9022	0.1	0.1	Silicone rubber + polyester film	Acrylic-based	0.10	Bk	matt	8.80 (897)	Fuse free rubber surface, With release liner	9022	0.1								
												0.15	Silicone rubber + polyester film	Acrylic-based	0.15	Bk	matt	16.00 (1632)	Fuse free rubber surface, With release liner	0.15
												0.2	Silicone rubber + polyester film	Acrylic-based	0.20	Bk	matt	12.50 (1275)	Fuse free rubber surface, With release liner	0.2

Abbreviation for Standard color; T: Transparent, W: White, Gy: Gray, Bk: Black, B: Blue, R: Red, Y: Yellow, G: Green



* The above values are typical examples measured using JIS or our corporate testing method.

Adhesive Tapes for Electrical Equipment Masking / Surface protection

1 kgf = 9.80665N

1 N = 0.101972kgf

UL510FR = UL510 Flame retardant
UL file No.E56086

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 %	Features and applications	Tape sample	
Kapton® adhesive tape 	650S	#25	Kapton® film (0.025)	Silicone-based	0.050		20, 50	5.39 (550)	122.6 (12.5)	50	For solder masking Release liner is an optional extra UL510FR UL temperature rated 200°C	650S #25	
	652S	#25	Kapton® film (0.025)	Silicone-based	0.070		30	7.35 (750)	122.6 (12.5)	50	For solder masking UL510FR, UL temperature rated 200°C, thick adhesive type	652S #25	
	654S	#25	Kapton® film (0.025)	Silicone-based	0.055		30	9.32 (950)	122.6 (12.5)	50	For solder masking UL510FR, UL temperature rated 200°C	654S #25	
	6542	#25	Kapton® film (0.025)	Silicone-based	0.060		30	5.48 (558)	164.0 (16.7)	50	For solder masking. Excellent for heat resistant at high temperature	6542 #25	
	6563	#50	Kapton® film (0.050)	Silicone-based	0.065		50	1.75 (178)	245.2 (25.0)	50	Midium adhesion, With release liner	6563 #50	
	6564	#25	Kapton® film (0.025)	Silicone-based	0.040		20, 50	1.00 (102)	122.6 (12.5)	50	Midium adhesion, With release liner	6564 #25	
Crepe paper adhesive tape	290		Crepe paper	Rubber-based	0.17		50	9.22 (940)	98.1 (10.0)	15	Heat resistance (160°C1H to SUS)	290	
	293		Crepe paper	Rubber-based	0.17		50	7.85 (800)	98.1 (10.0)	15	Heat resistance (160°C1H to SUS)	293	
	* 260	0.17	Crepe paper (0.135)	Rubber-based	0.17		60	7.35 (750)	117.7 (12.0)	10	For solder masking	260 0.17	
Polyester film adhesive tape 	* 6404	#12	Polyester film (0.012)	Silicone-based	0.037	Transparent	100	6.55 (668)	26.0 (2.7)	95	Heat resistance (150°C1H to SUS), Strong adhere to PTFE	6404 #12	
	647	0.05	Polyester film (0.025)	Silicone-based	0.050	Green	60	6.50 (663)	94.1 (9.6)	80	For plating masking of terminals of printed circuit board	0.05	
		0.08	Polyester film (0.025)	Silicone-based	0.080	Green	30, 60	7.00 (714)	94.1 (9.6)	80		0.08	
		0.1	Polyester film (0.025)	Silicone-based	0.100	Green, Red	30, 60	7.30 (744)	94.1 (9.6)	80		0.1	
		0.12	Polyester film (0.025)	Silicone-based	0.12	Green	60	7.30 (744)	94.1 (9.6)	80		0.12	
	646S	#25	Polyester film (0.025)	Silicone-based	0.055	Transparent, Blue	Transparent 20,33 Blue 66		7.52 (767)	95.6 (9.8)	80		646S #25
		#50	Polyester film (0.050)	Silicone-based	0.080	Transparent		30	7.27 (741)	218.2 (22.3)	80	UL temperature rated 130°C	#50
	648	#50	Polyester film (0.050)	Silicone-based	0.12	Transparent		30	14.71 (1500)	208.4 (21.3)	80	For molding (chemical resistance)	648 #50
PTFE film adhesive tape	8410	0.08	PTFE film (0.050)	Silicone-based	0.080		10	6.62 (675)	57.0 (5.8)	250	Heat resistant Good releasing and slippery on backside UL510FR Refer to ① page	8410 0.08	
Film masking tape	465	#40	Polypropylene film (0.040)	Acrylic-based	0.050	Transparent	100·200	Peel adhesion to PET 2.00 (203)	110.0 (11.2)	150	Peel adhesion after heating does not increase extremely	465 #40	
	6010	#75	Polyester film (0.075)	Acrylic-based	0.090	Transparent	50	0.35 (36)	290.0 (29.6)	80	With silicone free type film release liner	6010 #75	
		#100	Polyester film (0.100)	Acrylic-based	0.120	Transparent	100	0.35 (36)	330.0 (33.7)	80	With silicone free type film release liner	#100	
	6011	#75	Polyester film (0.075)	Acrylic-based	0.085	Transparent	200	0.15 (15)	290.0 (29.6)	80	With silicone free type film release liner	6011 #75	
	6012	#75	Polyester film (0.075)	Acrylic-based	0.085	Transparent	200	0.09 (9)	290.0 (29.6)	80	With silicone free type film release liner	6012 #75	
	602	#50	Polyester film (0.050)	Acrylic-based	0.065	Transparent	500	1.23 (125)	196.1 (20.0)	80	Midium adhesion	602 #50	
	603	#25	Polyester film (0.025)	Acrylic-based	0.034	Transparent	300	0.13 (13)	121.9 (12.4)	80	Heat resistance 150°C 1H	#25	
		#38	Polyester film (0.038)	Acrylic-based	0.049	Transparent	200	0.10 (10)	193.7 (19.8)	80		#38	
		#50	Polyester film (0.050)	Acrylic-based	0.062	Red	100	0.09 (9)	230.0 (23.4)	80		#50	
		#75	Polyester film (0.075)	Acrylic-based	0.086	Transparent	200	0.08 (8)	320.0 (32.6)	80		#75	
	605	#38	Polyester film (0.038)	Acrylic-based	0.043	Transparent	100	0.17 (18)	166.7 (17.0)	80	For surface protection	#38	
		#50	Polyester film (0.050)	Acrylic-based	0.055	Transparent	50	0.17 (18)	235.4 (24.0)	80		#50	
	6070	0.037	Polyester film	Acrylic-based	0.037	Transparent	300	3.55 (362)	118.3 (12.1)	170	Adhesive strength stable even after heat process	6070 0.033	
	609	#25	Polyester film (0.025)	Acrylic-based	0.050	White, Black	50	3.87 (394)	98.1 (10.0)	80		609 #25	
6093	#25	Polyester film (0.025)	Acrylic-based	0.038	Transparent	50	3.34 (340)	—	—	Hard to contamination transfer after heat process	6093 #25		
	#75	Polyester film (0.075)	Acrylic-based	0.090	Transparent	100	2.00 (204)	290.0 (29.6)	80	With silicone free type film release liner	#75		

* : Circuit tape

* The above values are typical examples measured using JIS or our corporate testing method.

Adhesive Tapes for Electrical Equipment Electrical conduction/shielding

1 kgf = 9.80665N

1 N = 0.101972kgf

UL510FR = UL510 Flame retardant
UL file No.E56086

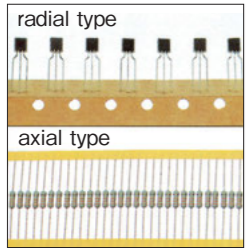
Product name	Tape No.	Indicated thickness	Backing (thickness, mm)	Type of adhesive	Overall thickness mm	Standard color	Standard length m	Peel adhesion N(gf)/W.25mm	Tensile strength N(kgf)/W.25mm	Elongation %	Electrical resistance depthwise Ω/㎝	Features, applications and standards met	Tape sample	
Copper foil adhesive tape	8313	0.03	Electrolytic copper foil (0.009)	Acrylic-based	0.030		20	13.50 (1376)	114.3 (11.6)	—	0.02	EMI/RFI shielding, Shielding forcables,connectors,etc UL510 Flame retardant regulation by our internal test	8313	0.03
	8315	0.05	Electrolytic copper foil (0.018)	Acrylic-based	0.050		20, 50	14.75 (1504)	197.5 (20.4)	—	0.02		8315	0.05
	8323		Rolled copper foil (0.035)	Acrylic-based conductive	0.070		20	8.58 (875)	98.1 (10.0)	—	0.04	EMI/RFI shielding. Shielding for switching transformers, etc. UL510FR	8323	
Aluminum foil conductive adhesive tape	8303		Aluminum foil (0.050)	Acrylic-based conductive	0.085		20	9.81 (1000)	80.9 (8.3)	—	0.08	EMI/RFI shielding UL510FR	8303	
	8304	0.05	Aluminum foil (0.020)	Acrylic-based conductive	0.050		20	12.80 (1295)	29.4 (3.0)		0.06	EMI/RFI shielding, UL510 Flame retardant regulation by our internal test	8304	0.05
Low VOC Halogen free flame retardant conductive cloth adhesive tape	1829		Nickel/copper Polyester/ripstop	Acrylic-based conductive	0.095		20	11.80 (1203)	195.0 (19.8)		0.01	Extremely flexible. Able to withstand bending. Light. Halogen free flame retardant. UL510FR	1829	
Shielding adhesive tape (Conductive cloth adhesive tape)	1825		Nickel/copper coated Polyester/ripstop	Acrylic-based conductive	0.12		20	11.03 (1125)	264.8 (27.0)	—	0.05	Extremely flexible. Able to withstand bending. Light EMI/RFI shielding, Auxiliary materials for shielded rooms. UL510FR	1825	
Copper foil adhesive tape	831S		Electrolytic copper foil (0.035)	Acrylic-based	0.070		20	9.81 (1000)	245.2 (25.0)	—	—	EMI/RFI shielding UL510FR	831S	
Aluminum foil adhesive tape	833	0.08	Aluminum foil (0.050)	Acrylic-based	0.080		20, 50	14.71 (1500)	80.9 (8.3)	7	—	EMI/RFI shielding UL510FR	833	0.08
		0.13	Aluminum foil (0.080)	Acrylic-based	0.13		20	19.61 (2000)	142.2 (14.5)	10	—			0.13
Double-coated conductive adhesive tape	791		Aluminum foil	Acrylic-based conductive	0.13		20, 50	14.71 (1500)	—	—	0.5	EMI/RFI shielding. Attachment, fixing of conductive parts	791	
	792		Rolled copper foil	Acrylic-based conductive	0.090		20, 50	8.58 (875)	—	—	0.02	EMI/RFI shielding. Attachment, fixing of conductive parts	792	
	795		Electrolytic copper foil (0.018)	Acrylic-based conductive	0.060		50	7.50 (765)	—	—	0.05	EMI/RFI shielding. Attachment, fixing of conductive parts No.795 is thinner than No.792	795	
	796		Electrolytic copper foil (0.009)	Acrylic-based conductive	0.050		20	7.50 (765)	—	—	0.03	EMI/REF shielding. Attachment,fixing of conductive parts. No.796 is thinner than No.795. Low VOC (toluene free)	796	
Non-woven fabric double-coated conductive adhesive tape	7741	0.05	Non-woven fabric	Acrylic-based conductive	0.050		20	10.60 (1080)	—	—	0.02	This product is flexible,bendable and light Low VOC product (Toluene free)	7741	0.05

Removable double-coated adhesive tape

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	Shear Adhesive strength N(kgf)/4cm	Tack	Features, applications and standards met	Tape sample	
Low VOC(solvent free) Removable double-coated adhesive tape	7225		Non-woven fabric	solvent free-based	0.135		50	12.75 (1300)	430.0 (44)	◎	Low VOC product (solvent free) Both faces for removal	7225	
Removable Double-coated adhesive film tape	7691	#25	Polyester film (0.025)	*① Acrylic-based *② Rubber-based	0.085	Black	50	① 13.73 (1400) ② 3.13 (320)	112.8 (12)	◎ ◎	For masking Heat resistant 2nd adhesive face for removal	7691	#25
	7692	#12	Polyester film (0.012)	Acrylic-based	0.047		50	① 8.53 (870) ② 0.54 (55)	—	◎ ◎	For masking Heat resistant 2nd adhesive face for removal	7692	#12
	7694	0.085	Polyester film (0.025)	Acrylic-based	0.085	Black	50	① 20.00 (2039) ② 3.60 (367)	340.0 (35)	◎ ◎	For masking Heat resistant Shading 2nd adhesive face for removal, Halogen free	7694	0.085
	7696	0.085	Polyester film (0.038)	Acrylic-based	0.085	White/ Black	50	① 22.50 (2294) ② 13.75 (1402)	376.7 (38)	◎ ◎	The 2nd face for removal., Halogen free	7696	0.085

① The 1st. Adhesive face::inside the roll
② The 2nd. Adhesive face::outside the roll

Adhesive Tapes for Electrical Equipment Belting/End-fixing

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 %	Features and applications	Tape sample
Belting tape 	250		Crepe paper	Acrylic-based	0.17		200, 500 (3000)	—	110.3 (11.3)	14	Belting of electronic parts, radial (hot melt type) Heat press 10kgf/cm ² , 120°C, 1 sec.	250
	257		Crepe paper	Rubber-based	0.15	Blue, Cream	500, 1000 (3000, 6000)	7.35 (750)	73.5 (7.5)	13	Belting of electronic parts, axial	257
	584C		Flat paper	Rubber-based	0.12	White, Blue	500, 1000 (3000, 6000)	14.91 (1520)	171.6 (17.5)	5	Belting of electronic parts, axial	584C
	587		Flat paper	Rubber-based	0.12	White, Sky blue	500 (3000, 6000)	13.73 (1400)	171.6 (17.5)	5	Belting of diode, axial	587
	272		Flat paper	Rubber-based	0.125		(10500)	9.81 (1000)	183.9 (18.8)	5	Belting of electronic parts, axial	272

* The above values are typical examples measured using JIS or our corporate testing method.

Adhesive Tapes for Electrical Equipment Double-Coated adhesive Tapes

1 kgf =9.80665N

1 N =0.101972kgf

UL94VTM-0 : ULfile No. E125972
UL969 : UL file No.MH19815

Heat resistance

To silicone rubber

strong adhesion

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	Shear Adhesive strength N(kgf) / 4cm	Tack	Features, applications and standards met	Tape sample	
Double-coated adhesive film tape	760H	#25	Kapton® film (0.025)	Silicone-based	0.145		20	11.03 (1125)	196.1 (20)	◎	Heat resistance	760H	#25
	7602	#25	Kapton® film (0.025)	Silicone-based	0.085		50	11.50 (1173)	—	◎	Heat resistance Thin type	7602	#25
Double-coated adhesive PEEK film tape	7620	0.016	PEEK film	Acrylic-based	0.016		50	8.05 (820)	—	◎	Heat resistance Thin type	7620	0.016
Double-coated adhesive tape	745		Aromatic polyamide non-woven fabric	Silicone-based	0.21		30	14.71 (1500)	176.5 (18)	◎	For coil wrapping	745	
	749		Glass cloth	Silicone-based	0.15		30	14.71 (1500)	196.1 (20)	◎	Good tacking to fluorocarbon resin	749	
Double-coated adhesive film tape	7641	#25	Polyester film (0.025)	Acrylic-based	0.100	T, Bk	50	24.52 (2500)	642.2 (66)	◎	Excellent transparency for transparent. With film release liner #25 : UL969	7641	#25
		#75	Polyester film (0.075)	Acrylic-based	0.15	T, Bk	50	29.30 (2987)	—	○			#75
		#100	Polyester film (0.100)	Acrylic-based	0.20	Trans-parent	50	32.51 (3315)	856.7 (87)	○			#100
	7642	#25	Polyester film (0.025)	Acrylic-based	0.095		50	20.20 (2060)	382.5 (39)	◎	General purpose	7642	#25
	7643	#12	Polyester film (0.012)	Acrylic-based	0.060		50	12.25 (1250)	340.2 (35)	◎	Good for die cutting	7643	#12
	7644	#12	Polyester film (0.012)	Acrylic-based	0.060		100	12.25 (1250)	340.2 (35)	◎	Good for shading (Aluminum evaporated polyester film)	7644	#12
	7647	0.05	Polyester film (0.038)	Acrylic-based	0.050	W/Bk	50	16.25 (1657)	—	○	One side is white,the other side is black. UL969	7647	0.05
	7080	#25	Polyester film (0.025)	Silicone-based	0.085		50	8.58 (875)	196.1 (20)	◎	For fixing silicone rubber on the both faces	7080	#25
		#50	Polyester film (0.050)	Silicone-based	0.11		50	6.25 (637)	—	◎	For fixing silicone rubber on the both faces		#50
	7082	#25	Polyester film (0.025)	Silicone-based	0.085		30	9.81 (1000)	—	◎	For fixing silicone rubber on the both faces With double release liners	7082	#25
	7084	#4	Polyester film (0.040)	Silicone-based	0.040		20	8.25 (841) 12.50 (1274)	320.0 (33)	○	Thin type	7084	#4
	765H	#50	Polyester film (0.050)	*① Acrylic-based *② Silicone-based	0.100		30	① 17.16 (1750) ② 7.35 (750)	290.0 (30)	◎	For fixing silicone rubber on the 2nd adhesive face	765H	#50
	767	#50	Polyester film (0.050)	*① Acrylic-based *② Silicone-based	0.11		30	① 17.16 (1750) ② 9.81 (1000)	255.0 (26)	◎	For fixing silicone rubber strongly on the 2nd adhesive face	767	#50
Low VOC Halogen free flame retardant double-coated adhesive tape	725F	0.10	Non-woven fabric	Acrylic-based	0.10		50	16.87 (1720)	469.0 (48)	◎	Low VOC (Toluene free) Halogen free flame retardant UL94VTM-0	725F	0.10
Low VOC(solvent free) Removable double-coated adhesive tape	7225		Non-woven fabric	Solvent free-based	0.135		50	12.75 (1300)	430.0 (44)	◎	Low VOC product (solvent free) Both faces for removal	7225	
Low VOC (toluene free) double-coated adhesive tape	7770		Non-woven fabric	Acrylic-based	0.16		50	21.30 (2173)	734.0 (75)	◎	Low VOC (Toluene free) Strong adhesion. Strong shear adhesive strength.	7770	
	7570	0.12	Non-woven fabric	Acrylic-based	0.12		50	25.50 (2600)	440.0 (45)	◎	Low VOC (Toluene free) Strong adhesion.	7570	0.12
Double-coated adhesive tape	777		Non-woven fabric	Acrylic-based	0.16		20, 50	24.51 (2500)	507.6 (52)	◎	Strong adhesion. Strong shear adhesive strength. UL969.	777	
Double-coated adhesive foam tape	7840	0.42	Acrylic foam	Acrylic-based	0.42	White	10, 30	90° peeling method 83.36 (8500)	647.2 (66)	○	Strong adhesion especially to metal (90° peel adhesion and shear adhesive strength are measured 72H later than sticking) Heat resistant Cold resistant Soft Water-resistant	7840	0.42
		0.62	Acrylic foam	Acrylic-based	0.62	White, Black	10, 30	90° peeling method 104.93(10700)	608.0 (62)	○			0.62
Baseless adhesive tape	7021		Non-backing	Acrylic-based	0.050		50	13.48 (1375)	255.0 (26)	◎		7021	
	7470	0.05	Non-backing	Silicone-based	0.050		30	12.99 (1325)	—	◎	Heat resistance	7470	0.05
Double-coated adhesive film tape	705	#12	Polyester film (0.012)	Acrylic-based	0.030	Trans-parent	50	13.00 (1325)	380.0 (38)	○		705	#12
	7051	#12	Polyester film (0.012)	Acrylic-based	0.050	Trans-parent	50, 100	14.00 (1428)	397.7 (39)	○		7051	#12
	7053	#4	Polyester film (0.004)	Acrylic-based	0.020	Trans-parent	50	12.60 (1285)	370.0 (38)	○		7053	#4
	707	#4	Polyester film (0.004)	Acrylic-based	0.030	T, Bk	50, 100	11.25 (1146)	323.6 (33)	○	Film release liner type is No.7071 UL969	707	#4
	7070	0.01	Polyester film	Acrylic-based	0.010	Trans-parent	50	9.30 (948)	390.0 (40)	○	Extra thin. With a double-sided film release liner.	7070	0.01
	7054	0.006	Polyester film	Acrylic-based	0.006	Trans-parent	50	7.00 (714)	—	○	Extra thin. With a double-sided film release liner.	7054	0.006
	7075	#4	Polyester film (0.004)	Acrylic-based	0.050	Trans-parent	50	13.73 (1400)	407.9 (40)	◎		7075	#4

*① The 1st. adhesive face: inside the roll *② The 2nd. adhesive face: outside the roll Abbreviation for Standard color: T: Transparent,

W: White Bk: Black

* The above values are typical examples measured using JIS or our corporate testing method.

Thermal Conduction

1 kgf = 9.80665N

1 N = 0.101972kgf

UL94VTM-0: UL file No.E125972

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	Shear Adhesive strength N(kgf)/4cm	Thermal conductivity W/m·°C	Features, applications and standards met	Tape sample	
Double-coated thermal conductive adhesive tape	7090	0.125	Thermal conductive Kapton® film	Heat conductive adhesive	0.125		20	17.65 (1800)	490.3 (50)	0.7	Backing film have electrical insulation performance	7090	0.125
	7091	0.108	Heat resistant thin film	Heat conductive adhesive	0.108		20	15.25 (1550)	—	0.8	Backing film have electrical insulation performance	7091	0.108
	7092	0.125	Polyester film(0.04)	Heat conductive adhesive	0.125		20	13.62 (1390)	—	0.8	Halogen free flame retardant UL94VTM-0 Backing film have electrical insulation performance.	7092	0.125
	7093	0.25	Non-backing	Heat conductive adhesive	0.25		20	*90° peel adhesion 20.00 (2040)	—	1.0	Thin typeExcellent for flexibility and stress tractability. UL94 V-0 Flame retardant regulation by our internal test	7093	0.25
Double-coated conductive adhesive tape	792		Rolled copper foil (0.035)	Acrylic-based conductive	0.090		20, 50	8.58 (875)	490.3 (50)	over 5.0 *		792	
Double-coated adhesive film tape	707	#4	Polyester film (0.004)	Acrylic-based	0.030	Transparent, Black	50, 100	11.25 (1146)	323.6 (33)	0.28	Extra thin	707	#4

* Over testing range of measuring instrument (Kyoto Electronics QTM500)

For Optics

Product name	Tape No.	Indicated Thickness	Backing	Type of adhesive	Overall Thickness	Standard color	Standard length m	Peel adhesion N(gf)/W.25mm	All light transmittance (%) *		haze (%) *		Features
									start	65°C-80%RH×1000hr	start	65°C-80%RH×1000hr	
For optical uses baseless transfer adhesive tape	7027	0.025	Non-backing	Acrylic-based	0.025		50	20.2 (2060)	92.8	92.9	0.4	0.5	Clean, high in transparency.Strong adhere to various materials. Very little change in appearance under various environment. Does not peel off easily after laminate. Hard to cause air bubble after laminate.
		0.05	Non-backing	Acrylic-based	0.050		50	25.7 (2620)	92.9	92.9	0.4	0.5	
	7029	0.015	Non-backing	Acrylic-based	0.015		50	15.8 (1611)	92.9	94.1	0.5	0.5	Extra transparent. It is possible laminate on ITO surface, due to use adhesive, which low influence to ITO. Hard to happen peel off or air bubble after laminate.
		0.025	Non-backing	Acrylic-based	0.025		50	18.1 (1845)	93	93	0.6	0.5	
		0.05	Non-backing	Acrylic-based	0.050		50	21.3 (2172)	92.8	92.9	0.6	0.5	
		0.075	Non-backing	Acrylic-based	0.075		50	29.5 (3008)	92.9	93	0.5	0.5	

* Aging test condition: adhesive surface expose aging condition after apply to glass panel and peel off release liner
Glass panel characteristics: all light transmittance=92.3% Haze= 0.3%

Anti-electric Charge Adhesive Tape

Product name	Tape No.	Indicated thickness	Base material (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 %	Surface electric resistance(Ω)		Features and applications	Tape sample
											Backside	Outside		
Polyester film adhesive tape	6670	#38	Polyester film (0.038)	Acrylic-based	0.068		50	17.15 (1750)	147.1 (15.0)	80	10 ¹¹	10 ⁸	Silicone free type Antistatic treatment on back side	6670 #38
	6671	#25	Polyester film (0.025)	Acrylic-based	0.035		50	7.00 (713)	95.6 (9.8)	80	10 ⁸	10 ⁸	Silicone free type Removable Antistatic treatment both on back side and adhesive side	6671 #25
	6672	#25	Polyester film (0.025)	Acrylic-based	0.050		50	10.00 (1020)	95.6 (9.8)	80	10 ⁹	10 ⁸	Silicone free type Removable Antistatic treatment both on back side and adhesive side Strong adhering type	6672 #25

Epoxy Prepreg (Electrical Insulation, Adhesion, Heat Resistance)

Product name	Tape No.	Indicated thickness	Base material (thickness, mm)	Resin content %	Overall thickness mm	Standard color	Standard length m	Shear adhesive strength N(kgf)/cm	Tensile strength N(kgf)/W.25mm	Elongation %	Breakdown voltage kV	Specific resistance Ω-cm	Features and applications
Epoxy resin impregnated tape	5100	0.08	Glass cloth (0.050)	50	0.080		30	1961.3 (200)	267.7 (27.3)	3	5	3×10 ¹⁵	High tensile strength Heat resistant With both side tacked
		0.2	Glass cloth (0.13)	50	0.20		30	2618.4 (267)	1699.5 (173.3)	5	12	2×10 ¹⁵	
	5110	0.16	Polyester non-woven fabric (0.15)	80	0.16	White, Black	30	2667.4 (272)	198.1 (20.2)	3	12	8×10 ¹⁵	With both side tacked
		0.18	Polyester non-woven fabric (0.16)	85	0.18	White	30	1200.0 (122)	98.0 (10.0)	5	7	4×10 ¹⁵	After heat stiffening flexibility is good With both side tacked
	5113	0.15	Polyester non-woven fabric (0.15)	70	0.15	White, Black	30	3300.0 (337)	94.0 (9.6)	3	5	6×10 ¹⁵	Excellent for initial adhesion Good for work
	5120	0.17	Aromatic polyamide non-woven fabric (0.13)	70	0.17	White	30	2432.1 (248)	37.3 (3.8)	25	12	3.5×10 ¹⁶	Flexibility. Heat resistant With both side tacked
	5140	0.10	Polyester cloth (0.070)	70	0.10	White	30	2539.9 (259)	168.7 (17.2)	4	11	5×10 ¹⁶	Flexibility. Heat resistant With both side tacked
	5150	0.16	Polyester non-woven fabric(0.15)	80	0.16	White	30	2363.4 (241)	175.5 (17.9)	3	9	7×10 ¹⁶	With one side tacked
0.18		Polyester non-woven fabric (0.16)	80	0.18	White	30	1500.0 (153)	100.0 (10.2)	5	5	4×10 ¹⁵	After heat stiffening flexibility is good With one side tacked	

● Shear adhesive strength, tensile strength, elongation, breakdown voltage and specific resistance are valued after hardening at 150°C ×30min. in constant temperature ovens.

* The above values are typical examples measured using JIS or our corporate testing method.