

1. Electrolytic Corrosion Coefficient

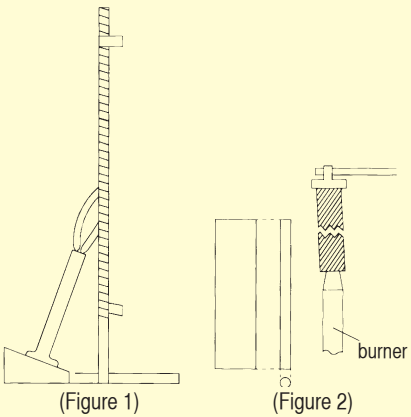
The electrolytic corrosion coefficient is a coefficient which indicates the degree of electrolytic corrosion of adhesive tape, Teraoka's testing method is based on 4.4 of JIS C2107⁻¹⁹⁹¹ (Testing Methods of Pressure-Sensitive Adhesive Tapes for Electrical Insulation.)

2. Flame-retardant Tape

Flame-retardant tape is made of material which has advanced self-extinguishing properties, making it highly resistnat 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 (Laminate and Molding material)	Thin materials (Sheet and Film)
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	Rolled into a cylindrical shape, the test piece was taped (Figure 2)
Grade	Flame retardant	V-0, 1, 2	VTM-0, 1, 2



3. Index

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250	9	5140	13	579R	5	631U	3	6542	7	7054	11	7601	11	8303	9
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252S	5	5151	13	580S	5	632S2	3	6564	7	7070	11	7641	11	831S	9
257	9	532F	1	584C	9	633K	3	6670	13	7075	11	7642	11	8315	9
260	7	540S	1	587	9	633L	3	6671	13	7080	11	7643	11	8323	9
272	9	541S	1	6010	7	635F	3	6672	13	7082	11	765H	11	833	9
290	7	551F	5	6011	7	636F	3	673F	3	7084	11	767	11	8410	1,7
302	5	551S	5	6012	7	638F1	3	681S	1	7090	13	7691	9	846	1
420	5	560S	1	603	7	646S	7	684F	3	7091	13	7692	9	9013	5
465	7	561S	1	605	7	646S2	7	684S	3	7092	13	7694	9	9014	5
480	3	5620	1	6070	7	647	7	691S	5	7225	9,11	7742	9	9020	5
4812	3	564S	1	609	7	648	7	692S	5	725F	11	777	11	9022	5
4913	1	566F	1	6093	7	650S	1,7	7021	11	726F	11	7770	11	9030W	5
4920	3	5661	1	610S	3	6520	7	7027	13	745	11	7813	11		
5100	13	570F	5	630F	3	652S	1,7	7029	13	7470	11	7840	11		
5110	13	570S	5	630F2	3	653F	1	705	11	749	11	791	9		
5113	13	571S	5	631S	3	653S	1	7051	11	7570	11	792	9,13		

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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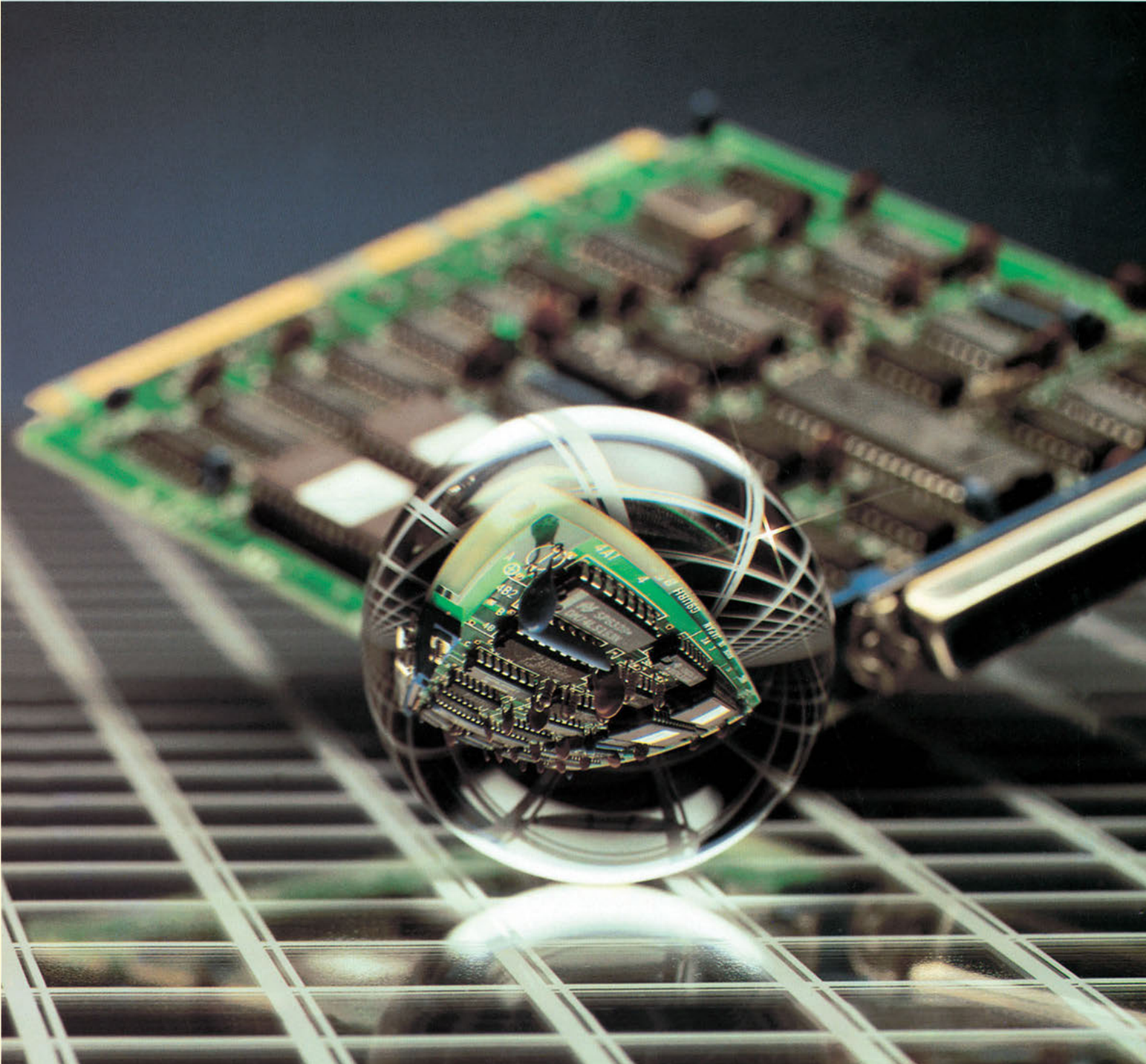
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Adhesive Tapes for Electrical Insulation and Electronic Equipment



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	Elonga- tion %	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℃ 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			#25	
		#50	Kapton® film (0.050)	Silicone-based	0.080		20			6.13 (625)	245.2 (25.0)	50	10.0	1.00			#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℃	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℃	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℃	5661	#2	
Non-halogen 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℃	566F	#2	
		#3	Nomex® paper (0.080)	Acrylic-based	0.13		50			13.48 (1375)	195.3 (20.0)	12	3.3	1.00	Halogen free flame retardant, UL510FR, UL temperature rated 200℃		#3	
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℃	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℃		#3	
		#5	Nomex® paper (0.13)	Acrylic-based	0.19		30			14.71 (1500)	392.3 (40.0)	14	5.5	1.00			#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℃	561S	#2	
		#3	Nomex® paper (0.080)	Silicone-based	0.15		50			12.26 (1250)	205.9 (21.0)	12	3.3	1.00			#3	
		#7	Nomex® paper (0.18)	Silicone-based	0.25		20			14.71 (1500)	588.4 (60.0)	16	7.0	1.00			#7	
	5620	#2	Nomex® paper (0.050)	Silicone-based	0.12		50			12.26 (1250)	105.4 (10.8)	8	2.5	1.00		5620	#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℃	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	—		541S	0.18	
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			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			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			0.23	
	846	0.13	PTFE impregnated glass cloth (0.080)	Silicone-based	0.13		10			11.42 (1164)	444.7 (45.3)	4	4.6	1.00	UL510FR	846	0.13	
		0.18	PTFE impregnated glass cloth (0.13)	Silicone-based	0.18		10			14.60 (1488)	637.4 (65.0)	10	6.6	1.00			0.18	
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℃ 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			0.2	

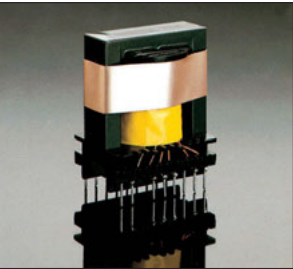
*The above values are typical examples measured using JIS or our corporate testing method.

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	Elonga- tion %	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℃	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 (2.5)	40	2.9	—	Heat resistant、Thin、 With release liner	4920	0.012
PEN film adhesive tape	635F	#25	Polyethylene naphtalate 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℃	635F	#25
	636F	#50	Polyethylene naphtalate 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		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			#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℃ UL746A CTI≥600V CSA130℃	630F	#25
	630F2	#50	Polyester film (0.050)	Acrylic-based	0.085	M, W, Bk B, Y, G	30			12.26 (1250)	218.2 (22.3)	80	8.0	1.00	UL510FR、 UL temperature rated 130℃ UL746ACTI Backingside500V Adhesiveside≥600V	630F2	#25
	631S	#12	Polyester film (0.012)	Acrylic-based	0.030	T, W, Bk, B, G	30			8.58 (875)	39.2 (4.0)	80	4.0	1.00	UL temperature rated 130℃	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℃, UL746A CTI≥600V, CSA130℃		#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℃		#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℃、 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℃	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℃, UL746A CTI≥600V CSA130℃	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℃, 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	638F1	#25	Polyester film (0.025)	Acrylic-based	0.058	M	50			9.50 (968)	95.6 (9.8)	80	6.0	1.00	Halogen free flame retardant UL510FR UL temperature rated 130℃ CTI≥600V	638F1	#25
Combination adhesive tape	673F	0.27	Polyester film (0.038) +polyester non-woven fabric (0.018)	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℃ UL746A CTI≥600V		0.5
	684F	0.42	Polyester film (0.025) +polyester non-woven fabric (0.035)	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℃ CSA130℃	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 form 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

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	Elonga- tion %	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	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	—		570S	
	571S		Acetate cloth (0.18)	Rubber-based	0.23	Bk	30			8.58 (875)	156.9 (16.0)	20	3.7	—	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		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		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	—		251S	0.18
	252S		Crepe paper (0.18)	Acrylic-based	0.23		60			11.03 (1125)	85.8 (8.8)	25	1.6	—		252S	
Polyester cloth adhesive tape	551F		Polyester cloth (0.18)	Rubber-based	0.26	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	—		551S	
Flat tape	580S		Special kraft paper (0.100)	Rubber-based	0.15		60			13.24 (1350)	196.1 (20.0)	—	1.5	—		580S	
Vinyl adhesive tape	302	0.2	Soft vinyl chloride film	Rubber-based	0.20	T, W, Bk, Gy, B, R, Y, G, etc.	10, 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 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. With a double-sided release liner.	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	0.15	Silicone rubber + polyester film	Acrylic-based	0.15			Bk	matt	16.00 (1632)	Fuse free rubber surface、 With release liner	9022	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
Silicone rubber double coated adhesive tape	9030W	0.114	Polyester film(0.050)	Silicone rubber	0.114			T	flat	Peel adhesion to Glass 1st 0.06 (6) 2nd 0.08 (8)	Able to peel off without residue even after heating by high temperature. Excellent for transparency. With a double-sided release liner.	9030W	0.114

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.

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	Elonga- tion %	Features and standards met	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
	6520	#25	Kapton® film (0.025)	Silicone-based	0.060		20			7.00 (713)	170.0 (17.3)	54	Excellent adhesion at the instant. At the heat process, good for repulsion resistance.	6520	#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			7.50 (765)	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	
	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 	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	647	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	0.10	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	Trans- parent 20,33 Blue 66			7.52 (767)	95.6 (9.8)	80		646S	#25
	646S2	#50	Polyester film (0.050)	Silicone-based	0.080	Transparent	30			7.27 (741)	218.2 (22.3)	80	UL temperature rated 130°C	646S2	#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
	8410	0.08	PTFE film (0.050)	Silicone-based	0.080		10			6.62 (675)	44.1 (4.5)	250	Heat resistant Good releasing and slippery on backside UL510FR Refer to ㉠ 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
	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	603	#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	605	#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)	114.8 (11.7)	70	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

1 kgf =9.80665N1 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 and standards met	Tape sample	
Copper foil adhesive tape	8315	0.05	Electrolytic copper foil (0.018)	Acrylic-based conductive	0.050		20, 50		14.75 (1504)	197.5 (20.4)	—	0.02	EMI/RFI shielding,Shielding forcables,connectors,etc UL510 Flame retardant regulation by our internal test	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
Shielding adhesive tape (Conductive cloth adhesive tape)	1825		Nickel/copper coated Polyester/ripstop	Acrylic-based conductive	0.120		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 (0.020)	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 (0.035)	Acrylic-based conductive	0.090		20, 50		8.58 (875)	—	—	0.02	EMI/RFI shielding. Attachment, fixing of conductive parts	792	
	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. Low VOC (toluene free)	796	
Non-woven fabric double-coated conductive adhesive tape	7742	0.03	Non-woven fabric	Acrylic-based conductive	0.030		20		9.90 (1010)	—	—	0.01	This product is flexible,bendable and light	7742	0.03

* Test method of electrical resistance : Put the tape between electrodes with loads of 3.43N/㎠. Then measure the electrical resistance at 0.1A current.

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) / 4㎠	Tack	Features 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)	* ①Acrylic-based * ②Rubber-based	0.085	Black	50	① ②	13.73 (1400) 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	T	50	① ②	8.53 (870) 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 ②	20.00 (2039) 3.60 (367)	340.0 (35)	◎ ◎	For masking Heat resistant Shading 2nd adhesive face for removal, Halogen free	7694	0.085

T: Transparent

①The 1st. Adhesive face::inside the roll
②The 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 standards met	Tape sample	
Belting tape radial type axial type	250		Crepe paper	Acrylic-based	0.17		500, 3000			—	110.3 (11.3)	14	Belting of electronic parts, radial (hot melt type) Heat press 10kg/㎠, 120℃, 1 sec.	250	
	257		Crepe paper	Rubber-based	0.15	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	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	100, 500 (3000, 6000)			13.73 (1400)	171.6 (17.5)	5	Belting of diode, axial	587	
	272		Flat paper	Rubber-based	0.125		1000			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

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

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	Shear Adhesive strength N (kgf) / 4cm	Tack	Features, applications and standards met	Tape sample	
Double-coated adhesive Kapton® film tape	760H	#25	Kapton® film (0.025)	Silicone-based	0.145		20		11.03 (1125)	196.1 (20)	☉	Heat resistance	760H	#25
	7601	#25	Kapton® film (0.025)	Silicone-based	0.085		30	① ②	6.90 (704) 2.10 (214)	————	○	2nd adhesive face is weak adhesion. For production process of components.	7601	#25
	7602	#25	Kapton® film (0.025)	Silicone-based	0.085		50		11.50 (1173)	————	☉	Heat resistance Thin type	7602	#25
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
	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)	*①Acrylic-based *②Silicone-based	0.100		30	① ②	17.16 (1750) 7.35 (750)	290.0 (30)	○ ☉	For fixing silicone rubber on the 2nd adhesive face	765H	#50
	767	#50	Polyester film (0.050)	*①Acrylic-based *②Silicone-based	0.11		30	① ②	17.16 (1750) 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
	726F		Non-woven fabric	Acrylic-based	0.15		50		12.16 (1240)	308.0 (31)	☉	Halogen free flame retardant UL94 VTM-0 Low VOC (Toluene free).	726F	
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	Solvent free-based	0.12		50		25.50 (2600)	440.0 (45)	☉	Low VOC (Solvent 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-resistan	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
	7813	0.2	Polyolefin foam carrier	Acrylic-based	0.20	Black	50		90°peeling method 25.60 (2610)	326.0 (33)	○	Superior waterproof property. Excellent drop impact resistance. Thickness: 0.15、0.2、0.25、0.3、0.4、1.1mm	7813	0.2
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		13.00 (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)	397.1 (40)	☉		7075	#4

*①The 1st. adhesive face: inside the roll *②The 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

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・℃	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
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℃・80%Rh×1000hr	start	65℃・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)	93.0	93.0	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	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	Elonga-tion %	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	Elonga-tion %	Breakdown voltage kV	Specific resistance Ω- cm	Features and applications
Epoxy resin impregnated tape	5100	0.08	Glass cloth (0.050)	50	0.080	White	30		1961 (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	White	30		2618 (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 (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 (122)	98.0 (10.0)	5	7	4×10 ¹⁵	After heat stiffenig flexibility is good With both side tacked
	5113	0.15	Polyester non-woven fabric (0.15)	70	0.15	White, Black	30		3300 (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 (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		2540 (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		2563 (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 (153)	100.0 (10.2)	5	5	4×10 ¹⁵	After heat stiffenig flexibility is good With one side tacked
	5151	0.18	Polyester non-woven fabric(0.15)	82	0.18	White	50		2482 (253)	46.5 (4.7)	35	5	5×10 ¹⁵	High shear adhesive strength. With one side tacked.
		0.25	Polyester non-woven fabric(0.22)	74	0.25	White	50		2124 (216)	96.8 (9.8)	42	3	4×10 ¹⁵	High shear adhesive strength. With one side tacked.

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

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