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





























For Transformers, Spools, Electric Motors, Printed Circuit Boards, and more.




Product	Backing	Adhesive Type	Backing Thickness (mm)	Total Thickness (mm)	Colour(s)	Adhesion to Steel (N/25mm)	Tensile Strength (N/25mm)	Elongation at break (%)	Breakdown Voltage (V _{eff} VDE 0303)	Insulation Resistance (megaΩ)	Electrolytic Corrosion	Flammability	RoHS	UL-Specification	UL-File-No.
Insulation Class Y 90°C															
Paper															
 54353	Paper	R	0,095	0,125	Beige	6,25	70,00	8	-	+90°C ⁽⁴⁾		●	-	-	-
Insulation Class A 105°C															
Silk Acetate Cloth Tapes															
 5060 PV1	Silk Acetate Cloth	RT	0,180	0,260	White Black	9,80	157,00	20	2500	+130°C ⁽⁴⁾		●		E338128	
 5060 PV2	Silk Acetate Cloth	RT	0,190	0,260	White	6,40	157,00	16	2500	+130°C ⁽⁴⁾		●		E338128	
Insulation Class B 130°C															
Polyester Film															
 51587	Polyester Film	RT	0,025	0,056	Black Yellow	13,75	110,00	100	5000	10 ⁵	A1,0	BU1	●		E20780
 51588	Polyester Film	RT	0,025	0,056	Clear	13,70	110,00	100	5000	10 ⁵	A1,0	BU1	●		E20780
 51594	Polyester Film	RT	0,025	0,051	Yellow	12,30	110,00	100	5000	10 ⁵	A1,0	BU1	●		E20780
 54107	Polyester Film	RT	0,025	0,060	Yellow	11,00	110,00	100	5000	10 ⁶	A1,0	BU1	●		E20780
 54108	Polyester Film	RT	0,025	0,060	Beige	13,70	110,00	100	5000	10 ⁶	A1,0	BU1	●		E20780
 50501⁽¹⁾	Polyester Film	A	0,025	0,055	9 Colours*	11,00	100,00	80	5000	10 ⁶	A1,0	BU1	●		E338128
 51589	Polyester Film	A	0,025	0,056	Yellow Clear	9,60	110,00	100	5000	10 ⁶	A1,0	BU1	●		E20780
 54113	Polyester Film	AT	0,025	0,060	Yellow Clear	12,30	110,00	100	5000	10 ⁵	A1,0	BU1	●		E20780
 54143	Polyester Film	AT	0,035	0,076	Yellow Clear	13,70	166,00	100	7500	10 ⁶	A1,0	BU1	●		E20780
 11350-1	Polyester Film	AT	0,025	0,060	Yellow Clear	10,00	110,00	100	5000	10 ¹⁵	A1,0	BU1	●		E338128
 11350-2	Polyester Film	AT	0,050	0,085	7 Colours**	7,80	216,00	100	6500	10 ¹⁵	A1,0	BU1	●	-	-
 11350-1-DS	Polyester Film (double-sided)	AT	0,025	0,090	Yellow	9,80	108,00	100	5000	10 ¹⁵	A1,0	BU1	●	-	-
 11587-2	Polyesterfolie	RT	0,050	0,087	Yellow, Black, Clear	15,00	175,00	100	7000	-	1	-	●	-	-
Silk Acetate Cloth Tapes															
 4560	Silk Acetate Cloth	RT	0,152	0,178	White Black	15,00	175,00	15	2000	10 ⁴	A1,0	BU1	●		E20780
 5060 PV3	Silk Acetate Cloth	AT	0,180	0,240	White	11,80	157,00	16	2500	+130°C ⁽⁴⁾		●		E338128	
 5060 PV4	Silk Acetate Cloth(oil-resistant)	AT	0,190	0,240	White Black	7,40	137,00	19,5	3000	-	-	-	●	-	-

Product	Backing	Adhesive Type	Backing Thickness (mm)	Total Thickness (mm)	Colour(s)	Adhesion to Steel (N/25mm)	Tensile Strength (N/25mm)	Elongation at Break (%)	Breakdown Voltage (V _{eff} VDE 0303)	Insulation Resistance (megaΩ)	Electrolytic Corrosion	Flammability	RoHS	UL-Specification	UL-File-No.
Specialty															
 4138	Polypropylen	A	0,025	0,065	Clear	28,00	24,00	100	4000	-	-	-	●	-	-
 4564⁽³⁾	Polyester Fleece (zone coated)	AT	0,061	0,165	White	8,90	76,00	35	500 / 4600	10 ⁶	A1,2	-	●		E20780
 11600 PV3⁽⁴⁾	Polyester Cloth	AT	0,125	0,180	White Black	11,80	314,00	12	2000	-	-	-	●	-	-
Polyester Laminates															
 4426	Polyester Film / Paper-Fleece	RT	0,102	0,152	Clear	16,47	200,00	2	5500	10 ⁴	A1,0	BU3	●		E20780
 4427	Polyester Film / Paper-Fleece	RT	0,089	0,140	White	16,50	175,00	2	4500	10 ⁴	A1,0	BU3	●		E20780
 51578	Polyester Film / Paper-Fleece	RT	0,089	0,140	White	19,00	175,00	2	4500	10 ⁴	A1,0	BU3	●		E20780
 54354	Polyester Film / Paper	RT	0,160	0,220	Beige	16,25	175,00	20	8000	5*10 ⁶	B3,0	BU2	●	-	-
 51596	PET-Film / PET-Fleece	RT	0,089	0,114	White Black	16,50	138,00	30	4500	10 ⁵	A1,0	BU2	●		E20780
 51245	PET-Film / PET-Fleece	RT	0,089	0,134	White	23,25	136,00	50	5000	10 ⁵	A1,0	BU2	●		E20780
 51580	PET-Film / PET-Fleece	RT	0,102	0,125	White	15,00	197,00	25	5500	10 ⁵	A1,0	BU2	●		E20780
Polyester Reinforced with Glass Filament															
 51599 PV1	PET/Filament	RT	0,127	0,178	Beige	15,00	1500,00	5	5000	10 ⁵	A1,0	BU2	●		E20780
Insulation Class F 155°C															
Polyester Laminates															
 51595	PET-Film / PET-Fleece	AT	0,089	0,114	White	13,70	131,00	30	4500	10 ⁵	A1,0	BU2	●		E20780
 11595	PET-Film / PET-Fleece	AT	0,060	0,140	Clear	14,70	147,00	30	5500	-	-	-	●		E338128
 11044-04-PV3	PET-Film / PET-Fleece	AT	0,060	0,110	Black	14,70	147,00	64	5700	-	-	-	●		E338128
 11044-08-PV3	PET-Film / PET-Fleece	AT	0,170	0,230	White	19,60	205,80	100	6000	-	-	-	●		E338128
Polyester Reinforced with Glass Filament															
 4237	PET/Filament	AT	0,114	0,180	Clear	12,25	1290,00	7	5000	10 ⁴	A1,0	BU2	●		E20780
 4238	PET/Filament	AT	0,165	0,190	Clear	12,00	1642,00	7,5	6000	10 ⁴	A1,0	BU2	●		E20780
 4238 PV3	PET/Filament	A	0,120	0,180	Clear	11,70	1176,00	14	6500	+155°C ⁽⁴⁾	-	-	●	-	-
 51597	PET/Filament	AT	0,138	0,165	Clear	11,00	1095,00	5	5000	10 ⁴	A1,0	BU2	●		E20780

Product	Backing	Adhesive Type	Backing Thickness (mm)	Total Thickness (mm)	Colour(s)	Adhesion to Steel (N/25mm)	Tensile Strength (N/25mm)	Elongation at Break (%)	Breakdown Voltage (V _{eff} VDE 0303)	Insulation Resistance (megaΩ)	Electrolytic Corrosion	Flammability	RoHS	UL-Specification	UL-File-No.
Polyester Reinforced with Glass Filament															
 11597	PET/Filament	A	0,110	0,180	Clear	9,80	980,00	12	6500	+155°C ⁽⁴⁾		●		E338128	
Paper Reinforced with Glass Filament															
 2036 PV1	Paper / Filament	AT	0,200	0,255	White	11,70	931,00	8	4000	+155°C ⁽⁴⁾		●	-	-	
Glass Cloth															
 4616	Glass Cloth	RT	0,127	0,178	White Black	13,70	765,00	3	2500	10 ³	A1,0 BU2	●		E20780	
 4617	Glass Cloth	AT	0,127	0,178	White	11,00	875,00	3	3000	10 ⁴	A1,0 BU2	●		E20780	
 4627	Glass Cloth	RT	0,127	0,178	White Black	13,70	765,00	3	2500	10 ³	A1,0 BU2	●		E20780	
 6017 PV3	Glass Cloth	AT	0,140	0,190	White	11,10	637,00	15	3000	-	-	●		E338128	
 6017 PV4	Glass Cloth	AT	0,145	0,180	White Black	13,20	588,00	7	2500	+177°C ⁽⁴⁾		●		E338128	
 6017 PV5	Glass Cloth (printable / oil-resistant)	AT	0,135	0,190	White Black	8,82	588,00	10	3500	-	-	●		E338128	
Specialty															
 1401 AC	Teonex®	A	0,050	0,085	Blue	11,25	225,00	60	8000	-	1,0	-	●	-	-
 41356 PV2	Nomex® / PET	AT	0,050 0,025	0,130	White	11,80	118,00	10	6000	+177°C ⁽⁴⁾		●		E338128	
 41356 PV3	Nomex® / PET	AT	0,050 0,150	0,270	White	10,80	490,00	120	>10000	-	-	●		E338128	
 56228 FR	Nomex®	AT	0,050	0,089	White	11,00	110,00	8	2500	10 ⁵	A1,0 BU1	●		E20780	
 61228 PV3	Nomex®	AT	0,050	0,090	White	12,00	80,00	10	2000	-	-	●		E338128	
 61228 PV4	Nomex®	Si	0,050	0,090	White	3,90	98,00	10	2500	-	-	●	-	-	
Polyimide Film / Kapton® / Apical®															
 51579	Polyimide Film	AT	0,025	0,056	Amber	8,20	132,50	60	7000	10 ⁵	A1,0 BU1	●		E20780	
 11579	Polyimide Film	AT	0,025	0,072	Amber	8,30	137,20	80	6500	+150°C ⁽⁴⁾		●		E338128	
Insulation Class H 180°C															
Specialty															
 1401	Teonex®	Si	0,050	0,085	Red	6,25	225,00	60	8000	-	1,0	-	●	-	-
 11202 PV3	Teflon®	Si	0,050	0,098	Dark Brown	8,80	118,00	120	10000	-	-	●		E338128	

Product	Backing	Adhesive Type	Backing Thickness (mm)	Total Thickness (mm)	Colour(s)	Adhesion to Steel (N/25mm)	Tensile Strength (N/25mm)	Elongation at Break (%)	Breakdown Voltage (V _{eff} VDE 0303)	Insulation Resistance (megaΩ)	Electrolytic Corrosion	Flammability	RoHS	UL-Specification	UL-File-No.
Polyimide Film / Kapton® / Apical®															
 4118⁽¹⁾	Kapton®	SiT	0,025	0,069	Amber	6,80	130,00	60	7000	10 ⁶	A1,0	BU1			E20780
 4428⁽¹⁾	Polyimide Film	SiT	0,025	0,064	Amber	6,80	131,00	80	6900	10 ⁶	A1,0	BU1			E20780
 4429⁽¹⁾	Polyimide Film	SiT	0,051	0,089	Amber	8,20	285,00	60	11000	10 ⁶	A1,0	BU1			E20780
 1018	Kapton®	Si	0,025	0,060	Amber	6,30	100,00	60	6350	-	-	-		-	-
 1018 PV6⁽²⁾	Polyimide Film	Si	0,025	0,60	Amber	6,40	>88,00	>40	5500	-	-	-		-	-
Insulation Class C 200°C															
Polyimide Film / Kapton® / Apical®															
 1018 PV2⁽¹⁾	Polyimide Film	SiT	0,025	0,055	Amber	6,00	113,00	70	5500	-	-	-			E338128
 1018 PV3⁽¹⁾	Apical® Polyimide Film	SiT	0,025	0,064	Amber	5,90	123,00	80	7000	-	-	-			E338128
 1018 PV4⁽¹⁾	Kapton® CR ⁵	SiT	0,025	0,064	Amber	5,90	137,00	80	7000	+260°C ⁽⁴⁾				E338128	
 1018 PV5⁽¹⁾	Polyimide Film	SiT	0,025	0,055	Amber	5,60	108,00	40	5500	-	-	-			E338128
 1018-DS⁽¹⁾	Polyimide Film (double-sided)	SiT	0,025	0,080	Amber	0 12,7 I 1,5	127,00	70	6500	-	-	-			E338128
 1019⁽¹⁾	Polyimide Film	SiT	0,050	0,090	Amber	7,00	255,00	60	6500	-	-	-			E338128
 1019 PV1⁽¹⁾	Kapton® CR ⁵	SiT	0,050	0,090	Amber	7,00	300,00	60	7000	+260°C ⁽⁴⁾				E338128	
Glass Cloth															
 4618⁽¹⁾	Glass Cloth	SiT	0,127	0,178	White	12,30	810,00	3	3000	10 ³	A1,0	BU1			E20780
 6018 PV3⁽¹⁾	Glass Cloth	SiT	0,140	0,190	White	6,40	441,00	15	3000	-	-	-			E338128
 6018 PV4⁽¹⁾	Glass Cloth	SiT	0,120	0,180	White	9,80	558,00	10	3500	-	-	-			E338128
 6020⁽¹⁾ PV1	Glass Cloth/ Aluminium	Si	-	0,190	Silber	10,70	490,00	9	-	-	-	-		-	-
 PTFE 11200-120	Glass Cloth	Si	0,120	0,165	-	15,50	625,00	-	-	+260°C ⁽⁴⁾			-	-	
Antistatic Self-Adhesive Tapes for the Production of Printed Circuit Boards															
 FM-38	Polyimide Film	Si	0,025	0,050	Amber	4,75	82,50	>50	-	+280°C ⁽⁴⁾			-	-	
 FM-48	Polyimide Film	Si	0,025	0,050	Amber	5,75	>33,75	>50	-	+250°C ⁽⁴⁾			-	-	
Self-Adhesive Tapes for the Production of Printed Circuit Boards and Powder Coating															
 FM-28	Polyimide Film	SiT	0,025	0,064	Amber	6,80	131,00	80	-	+204°C ⁽⁴⁾			-	-	

Product	Backing	Adhesive Type	Backing Thickness (mm)	Total Thickness (mm)	Colour(s)	Adhesion to Steel (N/25mm)	Tensile Strength (N/25mm)	Elongation at Break (%)	Breakdown Voltage (V _{eff} VDE 0303)	Insulation Resistance (megaΩ)	Electrolytic Corrosion	Flammability	RoHS	UL-Specification	UL-File-No.
Self-Adhesive Tapes for the Production of Printed Circuit Boards and Powder Coating															
 6120	Polyester Film	Si	0,025	0,076	Blue	8,20	109,00	100	-	+218°C ⁽⁴⁾	●	-	-	-	-
 6130	Polyester Film	Si	0,025	0,066	Red	8,75	114,00	120	-	+204°C ⁽⁴⁾	●	-	-	-	-
 6211	Polyester Film	Si	0,025	0,050	Yellow	7,00	108,00	100	5000	+177°C ⁽⁴⁾	●		E338128	-	-
 6214 PV1	Polyester Film	Si	0,025	0,055	Light Blue	12,50	125,00	130	-	+204°C ⁽⁴⁾	●	-	-	-	-
 6214 PV3	Polyester Film	Si	0,025	0,060	Green, Red, Blue	7,40	98,00	80	5500	+204°C ⁽⁴⁾	●	-	-	-	-
 6215 PV1	Polyester Film	Si	0,050	0,085	Green	11,60	209,80	165	>4000	+220°C ⁽⁴⁾	●	-	-	-	-
 6215 PV3	Polyester Film	Si	0,050	0,089	Green	8,00	230,00	100	7500	+204°C ⁽⁴⁾	●	-	-	-	-
 6215 PV4	Polyester Film	Si	0,050	0,080	Black	7,00	175,00	100	7000	+200°C ⁽⁴⁾	●	-	-	-	-
 4657	Acrylic Coated Cloth	RT	-	0,290	Grey Black	11,50	262,50	7,5	-	+180°C ⁽⁴⁾	●	-	-	-	-
 6057V	Plasticized Rayon Cloth	RT	0,190	0,230	Grey	9,90	146,00	10	1500	+180°C ⁽⁴⁾	●	-	-	-	-
Conductible Metal Self-Adhesive Tapes															
 4384 PV1	Copper Film	AS	0,025	0,065	-	7,12	6,87	-	-	+180°C ⁽⁴⁾	●	-	-	-	-

*) 9 colours: Yellow, Red, Blue, Black, Green, White, Clear, Anthracite Gray, Copper Brown

**) 7 colours: Yellow, Red, Blue, Black, Green, White, Clear

1) Passes UL 510 Flame Retardancy 2) ESD-Shielding 3) Zone Coated 4) Temperature Resistance 5) Corona Resistant

Nomex®, Kapton® and Teflon® are registered Trade names of DuPont de Nemours. Apical® is the Trade name of KANEKA, Japan.

UL-certified Converter



Volz Selbstklebetechnik GmbH has been a UL-certified Converter since 2012, independent of the material manufacturer. This ensures that the UL listings of the materials we convert remain valid.

Volz Selbstklebetechnik GmbH has the following UL listings:

- E354783 (TEOU2)** - Repackaged Recognized Components
- E354783 (TEOU8)** - Repackaged Recognized Components Certified for Canada
- E338128 (OANZZ)** - Insulating Tape Component
- MH47770 (PGGU2)** - Marking and Labeling System Materials – Component



Quality and Environmental Management Certified



Product	Core insulation, inter layer Insulation	Insulation for soldering and welding spots	Strain relief for supply lines	Closing bandage	Masking of self-supporting coils	Masking winding ends	Protection for resin treatment	Masking for multiple coil winding	Fastening of non-sticking insulation	Spiral head and phasing insulation	Masking for gold contacts, strip conductors and wave soldering	Product
54353			●	●	●	●				●		54353
51587	●		●	●	●	●	●	●	●	●		51587
51588	●		●	●	●	●	●	●	●	●		51588
51594	●		●	●	●	●	●	●	●	●		51594
54107	●		●	●	●	●	●	●	●	●		54107
54108	●		●	●	●	●	●	●	●	●		54108
50501	●		●	●	●	●	●	●	●	●		50501
51589	●		●	●	●	●	●	●	●	●		51589
54113	●		●	●	●	●	●	●	●	●		54113
54143	●		●	●	●	●	●	●	●	●		54143
11350-1	●		●	●	●	●	●	●	●	●		11350-1
11350-2	●		●	●	●	●	●	●	●	●		11350-2
11350-1-DS	●		●	●	●	●	●	●	●	●		11350-1-DS
4560			●	●	●	●				●		4560
5060 PV1			●	●	●	●				●		5060 PV1
5060 PV2			●	●	●	●				●		5060 PV2
5060 PV3			●	●	●	●				●		5060 PV3
5060 PV4			●	●	●	●				●		5060 PV4
4138	●			●	●	●			●	●		4138
4564				●						●		4564
11600 PV3			●	●	●		●	●	●	●		11600 PV3
4426	●	●	●			●				●		4426
4427	●	●	●			●				●		4427
51578	●	●	●			●				●		51578
54354	●	●	●	●	●					●		54354
51596	●	●	●	●	●	●				●		51596
51245	●	●	●	●	●	●				●		51245
51580	●	●	●	●	●	●				●		51580
51599 PV1			●	●	●	●						51599 PV1
51595	●	●	●	●	●	●				●		51595
11595	●	●	●	●	●	●				●		11595
11044-04 PV3	●	●	●	●	●	●				●		11044-04 PV3
11044-08 PV3	●	●	●	●	●	●				●		11044-08 PV3
51597			●	●	●	●						51597
11597			●	●	●	●						11597
4237			●	●	●	●						4237
4238			●	●	●	●						4238
4238 PV3			●	●	●	●						4238 PV3
2036 PV1			●	●	●	●						2036 PV1
4616			●	●	●	●	●			●	●	4616
4617			●	●	●	●	●			●	●	4617
4627			●	●	●	●	●			●	●	4627

Product	Core insulation, Inter layer Insulation	Insulation for soldering and welding spots	Strain relief for supply lines	Closing bandage	Masking of self-supporting coils	Masking winding ends	Protection for resin treatment	Masking for multiple coil winding	Fastening of non-sticking insulation	Spiral head and phasing insulation	Masking for gold contacts, strip conductors and wave soldering	Product
6017 PV3			●	●	●	●	●			●	●	6017 PV3
6017 PV4			●	●	●	●	●			●	●	6017 PV4
6017 PV5			●	●	●	●	●			●	●	6017 PV5
41356PV2		●	●	●						●		41356 PV2
41356PV3		●	●	●						●		41356 PV3
56228FR	●			●						●		56228FR
61228PV3	●			●						●		61228 PV3
61228PV4	●			●						●		61228 PV4
51579	●			●	●		●	●	●			51579
11579	●			●	●		●	●	●			11579
11202PV3	●			●	●					●	●	11202 PV3
4118	●	●		●	●		●	●	●		●	4118
1018	●	●		●	●		●	●	●		●	1018
4428	●	●		●	●		●	●	●		●	4428
4429	●	●		●	●		●	●	●		●	4429
1018 PV2	●	●		●	●		●	●	●		●	1018 PV2
1018 PV3	●	●		●	●		●	●	●		●	1018 PV3
1018 PV4	●	●		●	●		●	●	●		●	1018 PV4
1018 PV5	●	●		●	●		●	●	●		●	1018 PV5
1018 PV6	●	●		●	●		●	●	●		●	1018 PV6
1018-DS	●	●		●	●		●	●	●		●	1018-DS
1019	●	●		●	●		●	●	●		●	1019
1019 PV1	●	●		●	●		●	●	●		●	1019 PV1
4618			●	●	●	●	●			●	●	4618
6018 PV3			●	●	●	●	●			●	●	6018 PV3
6018 PV4			●	●	●	●	●			●	●	6018 PV4
6020 PV1												6020 PV1
PTFE 11200-120								●				PTFE 11200-120
FM-38											●	FM-38
FM-48											●	FM-48
FM-28											●	FM-28
6120											●	6120
6130											●	6130
6211											●	6211
6214 PV1											●	6214 PV1
6214 PV3											●	6214 PV3
6215 PV1											●	6215 PV1
6215 PV3											●	6215 PV3
4657											●	4657
6057V											●	6057V
4384 PV1	●	●	●	●	●	●	●	●	●	●	●	4384 PV1

Polyester Films



Polyester Films have a high insulation and dielectric strength, despite a lesser foil thickness (25µm). They are also resistant to chemicals and solvents due to the acrylic adhesive used. Polyester foils are mainly used for the following applications:

- Core and inter layer insulation, strain relief for supply lines, closing tapes, masking of self-supporting coils as well as masking winding ends, spiral head insulation, phases disconnection
- Fastening of non-sticking insulation
- Masking in multiple coil winding insulation or during impregnating resin varnish treatment

Polyester Laminates



Polyester Laminates are coated with two different carrier layers and therefore have excellent properties. Paper/polyester laminates offer strength, stability and intrinsic stiffness and can be easily torn-off by hand. Polyester/Polyester-fleece laminates offer high resistance to sharp-edged and punctual pressure, as well as a padded protective function. Polyester laminates are mainly utilized for:

- Core and inter layer insulation, insulation of soldered and welded joints as well as supply lines, strain relief for supply lines, closing bandages
- Masking of self-supported coils, as well as masking winding ends

Polyester Reinforced with Glass Filament



These adhesive tapes are mainly used as protective tapes for oil transformers where bundling of large and heavy single coils is required. The glass filament provides a high tensile strength and the polyester film a high dielectric strength. Typical applications are:

- Strain relief for supply lines, as closing masking bandages at the beginning and end of winding
- Masking of winding ends

Glass Cloth



Glass cloth tapes are especially conformable and flexible. Due to their high temperature resistance and strong tensile strength, glass cloth tapes are ideal for any insulation application. Due to the different glue adhesive systems, glass cloth tapes are available for all insulation classes. Applications:

- Strain relief for supply lines, masking bandage
- Masking of self-supporting coils as well as masking of winding ends
- Spiral head insulation, phases disconnection, masking for impregnating resin varnish treatment

Specialty Tapes



These tapes have unique properties and are used especially for high voltage insulation. They consist of special carrier materials, such as Teflon®, Nomex®, Polyester Cloth or acetate silk cloth. The strip coating of Intertape® 4564, allows complete impregnation of lacquers and resins. These adhesive tapes may be implemented in any area.

Polyimide Film



Polyimide film tapes are used when high temperatures are required. They are also often used for applications outside electrical engineering. Polyimide foils withstand short-term temperature ranges of 120°C up to 350°C and have a very high dielectric strength. Typical applications are:

- Core and inter layer insulation, masking self-supporting coils as well as winding ends
- Insulation of soldered and welded joints as well as supply lines, closing bandages
- Masking in multiple coil winding or during impregnating resin treatment
- Fastening of non-sticking insulation
- Masking for wave soldering, circuit boards and gold contacts

Temperature Rating

Each adhesive tape is assigned to a specific insulating material class or heat class on the basis of its continuous heat load capacity. The respective letter indicates the highest continuous temperature to which the adhesive tape may be subjected. Testing is carried out at a constant temperature for 20,000 hours.

Classification according to DIN EN 60085		Classification according to UL 1446			
Insulation Class	Temperature Limit	USA (OANZZ)	Canada< (OANZ8)	Maximum hot-spot temperature (°C)	Maximum hot-spot temperature (°F)
Y	90°C	-	-	-	-
A	105°C	-	-	-	-
E	120°C	120°C (E)	-	120°C	248°F
B	130°C	130°C (B)	B	130°C	266°F
F	155°C	155°C (F)	F	155°C	311°F
H	180°C	180°C (H)	H	180°C	356°F
N	200°C	200°C (N)	C	200°C	392°F
R	220°C	220°C (R)	C	220°C	428°F
-	-	240°C (S)	C	240°C	464°F
250	250	>240°C (C)	C	>240°C	>464°F

Adhesive Masses		Adhesive Properties
A	Acrylic	Acrylic
AT	Acrylic – thermosetting	Acrylic adhesive is resistant to UV radiation, light and aging, and is compatible with impregnating and trickle resins. Acrylic adhesives are resistant to solvents and some oils. The combination of synthetic polymers is thinner than with rubber adhesive.
AS	Acrylic with silver particle	Natural Rubber Adhesive The addition of resins and antioxidants results in a strong and impregnation resistant adhesive compound, which is, however limited in its temperature range.
R	Natural Rubber	
RT	Natural Rubber - thermosetting	Silicone Only polysiloxane adhesive compounds meet the requirements of insulation class H (180°C continuous temperature). In combination with a non-flammable carrier (polyimide, glass cloth, etc.), an adhesive tape for extreme applications will be obtained.
RTF	Natural Rubber - thermosetting, flame retardant	
Si	Silicone	Thermosetting The adhesive mass is solidified when heated or cured, thus decisively improving its resistance to impregnating agents.
SiT	Silicone - thermosetting	

Thermosetting Cycles		Slitting Tolerance	
Acrylic- and Rubber Adhesives Thermosetting	Silicone Adhesives Thermosetting	Film	$\pm 0,4\text{mm}$ ($\pm 1/64''$)
1 hour at 150°C	2 hours at 260°C	Cloths	$\pm 0,4\text{mm}$ ($\pm 1/64''$)
2 hours at 130°C	24 hours at 260°C / for maximum solvent resistance	Laminates	$\pm 0,4\text{mm}$ ($\pm 1/64''$)
3 hours at 120°C		Length > 100m	$\pm 0,8\text{mm}$ ($\pm 1/32''$)
Smaller cutting tolerances possible by request			

Storage Conditions

Tape rolls should be stored in their original cartons, upright and not in a horizontal position. Always protect the tape from sunlight. For the best shelf life, storage temperature should be between 15°C and 25°C with a relative humidity of 50% ($\pm 30\%$). Tapes stored below 15°C, should be kept at room temperature for at least 24 hours before use to ensure that the tape regains its distinctive properties.

