



COATING

CONVERTING

DISTRIBUTION



# volzElektro

**Adhesive Tapes for Electrical Insulation**

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

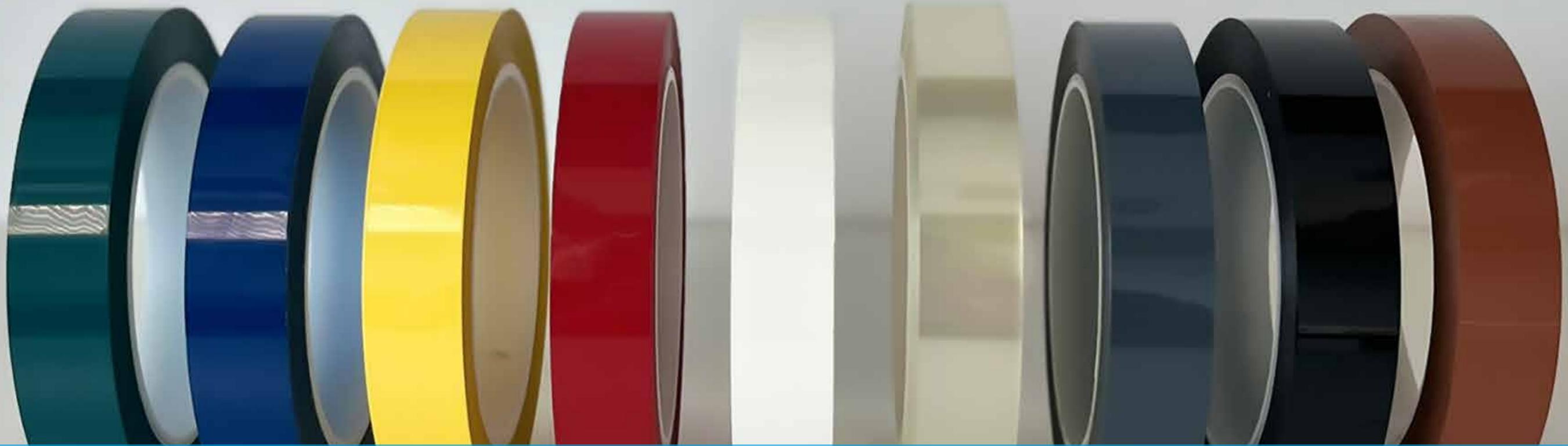
VOLZ TAPES® electrical adhesive tapes provide high thermal stability, outstanding electrical insulation, reliable mechanical protection, and strong chemical resistance. With a broad range of backing materials and adhesive systems, [volzElektro](#) offers the ideal solution for even the most demanding and complex applications.

Our comprehensive product portfolio also features a wide range of high-quality electrical adhesive tapes from renowned manufacturers including [IPG® \(Intertape Polymer Group®\)](#), [h-old®](#), [3M](#), as well as the entire [tesa®](#) industrial product range.

VOLZ TAPES® provides a broad range of formats designed to meet the individual requirements of companies of all sizes. Each tape is precisely cut to the requested width and length or converted into customized die-cut parts. Flexible packaging, labeling and shipping options are also available, providing a seamless integration into any operation.

As a UL-certified converter, VOLZ TAPES® works independently of the material manufacturer. This ensures that the UL listings of the materials we convert remain valid - providing maximum safety with tested quality.

E338128 (OANZ2) - Insulating Tape Component  
E354783 (TEOU2) - Repackaged Recognized Components  
E354783 (TEOU8) - Repackaged Recognized Components  
Certified for Canada



- Protection of electrical components against short circuits and electrical arcing
- Stability at high operating temperatures and prevention of insulation failure
- Reliable adhesion to various materials such as metal, copper, and plastic
- Windings and component protection from mechanical stress

- Resistant to oils, resins, cleaning agents, and industrial chemicals
- Reduction of fire risks and fulfillment of safety requirements in electrical systems
- Highly flexible and easily conforms to complex shapes, windings, and tight spaces
- Retention of properties, even during long operating times and high thermal stress

Backings	Adhesive	Backing Thickness (mm)	Total Thickness (mm)	Color	Adhesion to Steel (N/25 mm)	Tensile Strength (N/25 mm)	Elongation (%)	Breakdown Voltage (Veff VDE 0303)	Insulation Resistance megaohm	Electrolytic Corrosion	Flammability	UL-File Number	UL-Specification	Applications						
														Winding & Core Insulation	Spool Securing / Winding Process	Impregnation / Resin Processing	Insulation of Electrical Connections	Mechanical Securing & Strain Relief	Masking in Electronics Manufacturing	
<b>Insulation Class B 130°C</b>														<b>Polyester Film</b>						
IPG® 51587	PET Film	RT	0,025	0,056	Yellow Black	13,75	110,00	100	5000	10 <sup>6</sup>	A1,0	BU1	E20780	UR	✓	✓	✓	✓	✓	
IPG® 51588	PET Film	RT	0,025	0,056	Clear	13,70	110,00	100	5000	10 <sup>6</sup>	A1,0	BU1	E20780	UR	✓	✓	✓	✓	✓	
IPG® 51594	PET Film	RT	0,025	0,051	Yellow	12,30	110,00	100	5000	10 <sup>5</sup>	A1,0	BU1	E20780	UR	✓	✓	✓	✓	✓	
IPG® 54108	PET Film	RT	0,025	0,060	Beige	13,70	110,00	100	5000	10 <sup>6</sup>	A1,0	BU1	E20780	UR	✓	✓	✓	✓	✓	
volzElektro 50501 <sup>(1)</sup>	PET Film	A	0,025	0,055	9 Colors*	11,00	100,00	80	5000	10 <sup>6</sup>	A1,0	BU1	E338128	UR	✓	✓	✓	✓	✓	
IPG® 51589	PET Film	A	0,025	0,056	Yellow Clear	9,60	110,00	100	5000	10 <sup>6</sup>	A1,0	BU1	E20780	UR	✓	✓	✓	✓	✓	
IPG® 54113	PET Film	AT	0,025	0,060	Yellow Clear	12,30	110,00	100	5000	10 <sup>6</sup>	A1,0	BU1	E20780	UR	✓	✓	✓	✓	✓	
IPG® 54143	PET Film	AT	0,035	0,076	Yellow Clear	13,70	166,00	100	7500	10 <sup>6</sup>	A1,0	BU1	E20780	UR	✓	✓	✓	✓	✓	
volzElektro 11350-1	PET Film	A	0,025	0,060	Yellow Clear	10,00	110,00	100	5000	10 <sup>15</sup>	A1,0	BU1	E338128	UR	✓	✓	✓	✓	✓	
volzElektro 11350-2	PET Film	A	0,050	0,085	7 Colors**	7,80	216,00	100	6500	10 <sup>15</sup>	A1,0	BU1	-	-	✓	✓	✓	✓	✓	
volzElektro 11350-1-DS	PET Film (double-sided)	A	0,025	0,090	Yellow	9,80	108,00	100	5000	10 <sup>15</sup>	A1,0	BU1	-	-	✓	✓	✓	✓	✓	
volzElektro 11587-2	PET Film	RT	0,050	0,087	Yellow Black Clear	15,00	175,00	100	7000	-	1	+160°C <sup>(4)</sup>	-	-	✓	✓			✓	
<b>Polyester Laminate</b>																				
IPG® 51596	PET Film / PET-Non-Woven	RT	0,089	0,114	White Black	16,50	138,00	30	4500	10 <sup>5</sup>	A1,0	BU2	E20780	UR	✓	✓		✓	✓	
IPG® 51245	PET Film / PET-Non-Woven	RT	0,089	0,134	White	23,25	136,00	50	5000	10 <sup>5</sup>	A1,0	BU2	E20780	UR	✓	✓		✓	✓	
IPG® 4426	PET Film / Non-Woven	RT	0,102	0,152	White Black	16,47	200,00	2	5500	10 <sup>4</sup>	A1,0	BU3	E20780	UR	✓	✓		✓	✓	
IPG® 4427	PET Film / Non-Woven	RT	0,089	0,140	White	16,50	175,00	2	4500	10 <sup>4</sup>	A1,0	BU3	E20780	UR	✓	✓		✓	✓	
IPG® 51578	PET Film / Non-Woven	RT	0,089	0,140	White	19,00	175,00	2	4500	10 <sup>4</sup>	A1,0	BU3	E20780	UR	✓	✓		✓	✓	
volzElektro 54354	PET Film / Paper	RT	0,160	0,220	Beige	16,25	175,00	20	8000	5*10 <sup>6</sup>	B3,0	BU2	-	-	✓	✓		✓	✓	

\* 9 Colors: Yellow, Red, Blue, Black, Green, White, Clear, Anthracite Gray, Copper Brown

\*\* 7 Colors: Yellow, Red, Blue, Black, Green, White, Clear

\*\*\*Technical data provided to the best of our knowledge, without obligation. A suitability test on original products prior to use is recommended.

1) Flame Resistant UL510 2) ESD Shielding 3) Backing Strip Coated 4) Temperature Resistance

Nomex®, Kapton®, and Teflon® are registered trademarks of DuPont de Nemours. Apical® is manufactured by KANEKA, Japan. Teonex® is manufactured by Teijin, Japan.

Products in this catalog are RoHS compliant

Backing	Adhesive	Backing Thickness (mm)	Total Thickness (mm)	Color	Adhesion to Steel (N/25 mm)	Tensile Strength (N/25 mm)	Elongation (%)	Breakdown Voltage (Veff VDE 0303)	Insulation Resistance megaΩ	Electrolytic Corrosion	Flammability	UL-File Number	UL-Specification	Winding & Core Insulation	Spool Securing / Winding Process	Impregnation / Resin Processing	Insulation of Electrical Connections	Mechanical Securing & Strain Relief	Masking in Electronics Manufacturing
<b>Polyester Reinforced with Glass Filament</b>														<b>Applications</b>					
IPG® 51599 PV1	PET Film / Filament	RT	0,127	0,178	Beige	15,00	1500,00	5	5000	10 <sup>5</sup>	A1,0	BU2	E20780	UL	✓		✓	✓	
<b>Silk Acetate Cloth</b>																			
IPG® 4560	Silk Acetate Cloth	RT	0,152	0,178	White Black	15,00	175,00	15	2000	10 <sup>4</sup>	A1,0	BU1	E20780	UL	✓	✓		✓	✓
volzElektro 5060 PV3	Silk Acetate Cloth	AT	0,180	0,240	Black	11,80	157,00	16	2500	+130°C <sup>(4)</sup>			E338128	UL	✓	✓		✓	✓
volzElektro 5060 PV4	Silk Acetate Cloth (oil-resistant)	AT	0,190	0,240	White	7,40	137,00	20	3000	+130°C <sup>(4)</sup>			-	-	✓	✓		✓	✓
<b>Specialty</b>																			
volzElektro 4138	PP Film	A	0,025	0,065	Clear	28,00	24,00	100	4000	-	-	-	-	-	✓	✓		✓	✓
IPG® 4564 <sup>(3)</sup>	PET Non-Woven (impregnation permeable)	AT	0,061	0,165	White	8,75	75,00	35	500	10 <sup>6</sup>	A,1,2	BU 1	E20780	UL	✓			✓	
volzElektro 5064 PV1 <sup>(3)</sup>	PET-Non-Woven	A	0,050	0,140	White	≥ 5,00	≥ 25,00	≥ 15	-	+175°C <sup>(4)</sup>			-	-	✓	✓		✓	
volzElektro 11600 PV3 <sup>(1)</sup>	PET Cloth	AT	0,125	0,180	White Black	11,80	314,00	12	2000	+175°C <sup>(4)</sup>			-	-	✓	✓	✓	✓	✓
<b>Insulation Class F 155°C</b>																			
<b>Polyester Laminate</b>																			
IPG® 51595	PET Film/ PET-Non-Woven	AT	0,089	0,114	White Black	13,70	131,00	30	4500	10 <sup>5</sup>	A1,0	BU 2	E20780	UL	✓	✓		✓	✓
volzElektro 11044-04 PV3	PET Film/ PET-Non-Woven	AT	0,060	0,110	Black	14,70	147,00	64	5700	-	-	-	E338128	UL	✓	✓		✓	✓
volzElektro 11044-08 PV3	PET Film/ PET-Non-Woven	AT	0,170	0,230	White	19,60	205,80	100	6000	-	-	-	E338128	UL	✓	✓		✓	✓
<b>Polyester Reinforced with Glass Filament</b>																			
IPG® 4237	PET Film / Filament	AT	0,114	0,180	Clear	12,25	1290,00	7	5000	10 <sup>4</sup>	A1,0	BU2	E20780	UL		✓		✓	✓
IPG® 4238	PET Film / Filament	AT	0,165	0,190	Clear	12,00	1642,00	8	6000	10 <sup>4</sup>	A1,0	BU2	E20780	UL		✓		✓	✓
IPG® 51597	PET Film / Filament	A	0,140	0,165	Clear	11,00	1095,00	5	5000	10 <sup>4</sup>	A1,0	BU2	E20780	UL		✓		✓	✓
volzElektro 11597	PET Film / Filament	A	0,110	0,180	Clear	9,80	980,00	12	6500	-	-	-	E338128	UL		✓		✓	✓
IPG® 4240	PET Film / Filament	A	0,130	0,250	Clear	10,95	590,00	6%	5000	-	-	-	-	-	✓	✓		✓	
<b>Paper with Glass Filament</b>																			
volzElektro 2036 PV1	Paper / Filament	AT	0,200	0,230	White	11,70	931,00	8	4000	+155°C <sup>(4)</sup>			-	-		✓		✓	✓

\* 9 Colors: Yellow, Red, Blue, Black, Green, White, Clear, Anthracite Gray, Copper Brown

\*\* 7 Colors: Yellow, Red, Blue, Black, Green, White, Clear

\*\*\*Technical data provided to the best of our knowledge, without obligation. A suitability test on original products prior to use is recommended.

1) Flame Resistant UL510 2) ESD Shielding 3) Backing Strip Coated 4) Temperature Resistance

Nomex®, Kapton®, and Teflon® are registered trademarks of DuPont de Nemours. Apical® is manufactured by KANEKA, Japan. Teonex® is manufactured by Teijin, Japan.

Products in this catalog are RoHS compliant

	Backing	Adhesive	Backing Thickness (mm)	Total Thickness (mm)	Color	Adhesion to Steel (N/25 mm)	Tensile Strength (N/25 mm)	Elongation (%)	Breakdown Voltage (Veff VDE 0303)	Insulation Resistance megaΩ	Electrolytic Corrosion	Flammability	UL-File Number	UL-Specification	Winding & Core Insulation	Spool Securing / Winding Process	Impregnation / Resin Processing	Insulation of Electrical Connections	Mechanical Securing & Strain Relief	Masking in Electronics Manufacturing
															Applications					
<b>Glass Cloth</b>																				
IPG® 4616	Glass Cloth	RT	0,127	0,178	White Black	13,70	765,00	3	2500	10 <sup>3</sup>	A1,0	BU2	E20780	UR	✓	✓	✓	✓	✓	✓
IPG® 4617	Glass Cloth	AT	0,127	0,178	White	11,00	875,00	3	3000	10 <sup>1</sup>	A1,0	BU2	E20780	UR	✓	✓	✓	✓	✓	✓
IPG® 4627	Glass Cloth	RT	0,127	0,178	White Black	13,70	765,00	3	2500	10 <sup>3</sup>	A1, 1	BU2	-	-	✓	✓	✓	✓	✓	✓
volzElektro 6017 PV3	Glass Cloth	AT	0,140	0,190	White	11,10	637,00	15	3000	-	-	-	E338128	UR	✓	✓	✓	✓	✓	✓
volzElektro 6017 PV4	Glass Cloth	AT	0,145	0,180	White Black	13,20	588,00	7	2500		+177°C <sup>(4)</sup>		E338128	UR	✓	✓	✓	✓	✓	✓
<b>Specialty</b>																				
volzElektro 1401AC	Teonex®	A	0,050	0,085	Blue	11,25	225,00	60	8000		1	+220°C <sup>(4)</sup>	-	-	✓	✓				
volzElektro 61228 PV3	Nomex®	A	0,050	0,090	White	12,00	80,00	10	2000	-	-	-	E338128	UR	✓			✓		
volzElektro 61228 PV4	Nomex®	Si	0,050	0,090	White	3,90	98,00	10	2500	-	-	-	-	-	✓			✓		
volzElektro 41356 PV2	PET Film / Nomex®	A	0,090	0,130	White	11,80	118,00	10	6000		+177°C <sup>(4)</sup>		E338128	UR	✓			✓	✓	
volzElektro 41356 PV3	PET Film / Nomex®	A	0,220	0,270	White	10,80	490,00	120	> 10000	-	-	-	E338128	UR	✓			✓	✓	
volzElektro 41356 PV4	PET Film / Nomex®	R	0,090	0,135	White	13,75	162,50	10%	7000		1	+160°C <sup>(4)</sup>			✓	✓		✓		
<b>Polyimide Film / Kapton® / Apical®</b>																				
IPG® 51579	Polyimide Film	AT	0,025	0,056	Amber	8,20	132,50	60	7000	10 <sup>6</sup>	A1,0	BU1	E20780	UR	✓	✓	✓	✓	✓	
volzElektro 11579	Polyimide Film	AT	0,025	0,072	Amber	9,00	147,00	80	7000		+302°C <sup>(4)</sup>		E338128	UR	✓	✓				
<b>Insulation Class H 180°C</b>																				
<b>Specialty</b>																				
volzElektro 1401	Teonex®	Si	0,050	0,085	Red	6,25	225,00	60	8000	-	1	+240°C <sup>(4)</sup>	-	-	✓	✓				
volzElektro 11203	PTFE Film	Si	0,130	0,190	Gray	8,75	200,00	320	11500	-	1	+260°C <sup>(4)</sup>	-	-	✓	✓				
volzElektro 11202 PV3	Teflon®	Si	0,050	0,098	Brown (translucent)	8,80	118,00	120	10000	-	-	-	E338128	UR	✓	✓		✓		✓
<b>Polyimide Film / Kapton® / Apical®</b>																				
volzElektro 1018	Kapton®	Si	0,025	0,060	Amber	6,30	100,00	60	6350	-	-	-	-	-	✓	✓	✓	✓	✓	✓
IPG® 4118 <sup>(1)</sup>	Kapton®	SiT	0,025	0,069	Amber	6,80	130,00	60	7000	10 <sup>6</sup>	A1,0	BU1	E20780	UR	✓	✓	✓	✓	✓	✓

\* 9 Colors: Yellow, Red, Blue, Black, Green, White, Clear, Anthracite Gray, Copper Brown

\*\* 7 Colors: Yellow, Red, Blue, Black, Green, White, Clear

\*\*\*Technical data provided to the best of our knowledge, without obligation. A suitability test on original products prior to use is recommended.

1) Flame Resistant UL510 2) ESD Shielding 3) Backing Strip Coated 4) Temperature Resistance

Nomex®, Kapton®, and Teflon® are registered trademarks of DuPont de Nemours. Apical® is manufactured by KANEKA, Japan. Teonex® is manufactured by Teijin, Japan.

Products in this catalog are RoHS compliant

Backings	Adhesive	Backing Thickness (mm)	Total Thickness (mm)	Color	Adhesion to Steel (N/25 mm)	Tensile Strength (N/25 mm)	Elongation (%)	Breakdown Voltage (Veff VDE 0303)	Insulation Resistance megaΩ	Electrolytic Corrosion	Flammability	UL-File Number	UL-Specification	Applications							
														Winding & Core / Insulation	Spool Securing / Winding Process	Impregnation / Resin Processing	Insulation of Electrical Connections	Mechanical Securing & Strain Relief	Masking in Electronics Manufacturing		
<b>Polyimide Film / Kapton® / Apical®</b>														<b>Applications</b>							
IPG® 4428 <sup>(1)</sup>	Polyimide Film	SiT	0,025	0,064	Amber	6,80	131,00	80	6900	10 <sup>6</sup>	A1,0	BU1	E20780	UR	✓	✓	✓	✓	✓	✓	
IPG® 4429 <sup>(1)</sup>	Polyimide Film	SiT	0,051	0,089	Amber	8,20	285,00	60	11000	10 <sup>6</sup>	A1,0	BU1	E20780	UR	✓	✓	✓	✓	✓	✓	
<b>Insulation Class N 200°C</b>																					
<b>Polyimide Film / Kapton® / Apical®</b>														<b>Applications</b>							
volzElektro 1018 PV2 <sup>(1)</sup>	Polyimide Film	SiT	0,025	0,055	Amber	6,00	113,00	70	5500	-	-	-	E338128	UR	✓	✓	✓	✓	✓	✓	
volzElektro 1018 PV3 <sup>(1)</sup>	Apical®	SiT	0,025	0,064	Amber	5,90	123,00	80	7000	-	-	-	E338128	UR	✓	✓	✓	✓	✓	✓	
volzElektro 1018 PV4 <sup>(1)</sup>	Kapton®	SiT	0,025	0,064	Amber	5,90	137,00	80	7000	+260°C <sup>(4)</sup>		-	E338128	UR	✓	✓	✓	✓	✓	✓	
volzElektro 1018 PV5 <sup>(1)</sup>	Polyimide Film	SiT	0,025	0,055	Amber	5,60	108,00	40	5500	-	-	-	E338128	UR	✓	✓	✓	✓	✓	✓	
volzElektro 1018 DS <sup>(1)</sup>	Polyimide Film	SiT	0,025	0,080	Amber	A: 12,70 I: 1,50	127,00	70	6500	-	-	-	E338128	UR	✓	✓	✓	✓	✓	✓	
volzElektro 1018S PV6 <sup>(1)</sup>	Polyimide Film	Si	0,025	0,064	Amber	5,50	132,50	50	-	+260°C <sup>(4)</sup>		-	-	-	-	-	-	-	-	✓	
volzElektro 1019 <sup>(1)</sup>	Polyimide Film	SiT	0,050	0,090	Amber	7,00	255,00	60	6500	-	-	-	E338128	UR	✓	✓	✓	✓	✓	✓	
volzElektro 1019 PV1 <sup>(1)</sup>	Kapton®	SiT	0,050	0,090	Amber	5,90	245,00	60	> 8000	-	-	-	E338128	UR	✓	✓	✓	✓	✓	✓	
<b>PTFE Glass Cloth</b>														<b>Applications</b>							
IPG® 4618 <sup>(1)</sup>	Glass Cloth	SiT	0,127	0,178	White	12,30	810,00	3	3000	10 <sup>3</sup>	A1,0	BU1	E20780	UR	✓	✓	✓	✓	✓	✓	
volzElektro 6018 PV3 <sup>(1)</sup>	Glass Cloth	SiT	0,125	0,190	White	9,80	588,00	9	4000	+260°C <sup>(4)</sup>		-	E338128	UR	✓	✓	✓	✓	✓	✓	
volzElektro 6018 PV4 <sup>(1)</sup>	Glass Cloth	SiT	0,125	0,200	White	9,80	558,00	9	4000	+260°C <sup>(4)</sup>		-	E338128	UR	✓	✓	✓	✓	✓	✓	
volzElektro 6020 PV1 <sup>(1)</sup>	Glass Cloth / Aluminum	Si	-	0,190	Silver	10,70	490,00	9	-	-	-	-	-	-	-	-	✓	✓	-	✓	
volzElektro PTFE 11200-120	Glass Cloth	Si	0,120	0,165	-	15,50	625,00	-	-	+260°C <sup>(4)</sup>		-	-	-	-	-	-	-	-	✓	
volzElektro PTFE 11200-250	Glass Cloth	Si	0,220	0,250	Black	18,75	1250,00	-	-	+260°C <sup>(4)</sup>		-	-	-	-	-	-	-	-	✓	
<b>Conductible Metal Adhesive Tape</b>																					
volzElektro 4384 PV2	Copper Film	A	0,035	0,075	Copper	> 10,00	-	-	-	+125°C <sup>(4)</sup>		-	-	-	✓	-	-	-	✓	-	
<b>Antistatic Adhesive Tapes for Printed Circuit Board Production</b>																					
IPG® FM38	Polyimide Film	Si	0,025	0,050	Amber	4,75	82,50	> 50	-	+280°C <sup>(4)</sup>		-	-	-	-	-	-	-	✓	-	
volzElektro 1018 PV6 <sup>(2)</sup>	Polyimide Film	Si	0,025	0,060	Amber	6,40	> 88,00	> 40	5500	-	-	-	-	-	-	-	-	-	✓	-	

\* 9 Colors: Yellow, Red, Blue, Black, Green, White, Clear, Anthracite Gray, Copper Brown

\*\* 7 Colors: Yellow, Red, Blue, Black, Green, White, Clear

\*\*\*Technical data provided to the best of our knowledge, without obligation. A suitability test on original products prior to use is recommended.

1) Flame Resistant UL510 2) ESD Shielding 3) Backing Strip Coated 4) Temperature Resistance

Nomex®, Kapton®, and Teflon® are registered trademarks of DuPont de Nemours. Apical® is manufactured by KANEKA, Japan. Teonex® is manufactured by Teijin, Japan.

Products in this catalog are RoHS compliant

	Backing	Adhesive	Backing Thickness (mm)	Total Thickness (mm)	Color	Adhesion to Steel (N/25 mm)	Tensile Strength (N/25 mm)	Elongation (%)	Breakdown Voltage (Veff VDE 0303)	Insulation Resistance megaΩ	Electrolytic Corrosion	Flammability	UL-File Number	UL-Specification	Winding & Core Insulation	Spool Securing / Winding Process	Impregnation / Resin Processing	Insulation of Electrical Connections	Mechanical Securing & Strain Relief	Masking in Electronics Manufacturing
Adhesive Tapes for the Production of Printed Circuit Boards and Powder Coating														Applications						
<b>IPG® 6120</b>	PET Film	Si	0,025	0,076	Blue	8,20	109,00	100	-		+218°C <sup>(4)</sup>	-	-							✓
<b>IPG® 6130</b>	PET Film	Si	0,025	0,066	Red	8,75	114,00	120	-		+204°C <sup>(4)</sup>	-	-							✓
<b>volzElektro 6212 PV3</b>	PET Film	Si	0,036	0,064	Olive Green	7,00	157,00	100	5500		+260°C <sup>(4)</sup>	-	-							✓
<b>volzElektro 6213 PV3</b>	PET Film	Si	0,025	0,050	Red Light Blue	3,20	108,00	100	5500		+177°C <sup>(4)</sup>	-	-							✓
<b>volzElektro 6214 PV1</b>	PET Film	Si	0,025	0,055	Light Blue	12,50	125,00	130	-		+204°C <sup>(4)</sup>	-	-							✓
<b>volzElektro 6214 PV2</b>	PET Film	Si	0,025	0,060	Blue Black	> 8,00	-	-	≥ 4000		+220°C <sup>(4)</sup>	-	-							✓
<b>volzElektro 6214 PV3</b>	PET Film	Si	0,025	0,060	Blue Green Red	7,40	98,00	80	5500		+204°C <sup>(4)</sup>	-	-							✓
<b>volzElektro 6214 DS</b>	PET Film	Si	0,023	0,100	Green	10,00	-	-	-		+220°C <sup>(4)</sup>	-	-							✓
<b>IPG® 6215</b>	PET Film	Si	0,050	0,080	Green	10,90	241,00	100	-		+180°C <sup>(4)</sup>	-	-							✓
<b>volzElektro 6215 DS</b>	PET Film	Si	0,050	0,125	Red Clear	6,25	-	-	-		+220°C <sup>(4)</sup>	-	-							✓
<b>volzElektro 6215 PV1</b>	PET Film	Si	0,050	0,085	Green	11,60	209,80	165	> 4000		+220°C <sup>(4)</sup>	-	-							✓
<b>volzElektro 6215 PV3</b>	PET Film	Si	0,050	0,080	Green	9,30	221,00	135	8000		+225°C <sup>(4)</sup>	-	-							✓
<b>volzElektro 6215 PV4</b>	PET Film	Si	0,050	0,080	Black	7,00	175,00	100	7000		+200°C <sup>(4)</sup>	-	-							✓
<b>volzElektro 6215 PV5</b>	PET Film	Si	0,050	0,087	Green	11,00	221,00	135	8000		+225°C <sup>(4)</sup>	-	-							✓
<b>volzElektro 6215 PV6</b>	PET Film	Si	0,050	0,080	Green	9,30	221,00	135	8000		+225°C <sup>(4)</sup>	-	-							✓
<b>volzElektro 6215 PV7</b>	PET Film	Si	0,050	0,089	Green	7,80	225,00	110	7500		+225°C <sup>(4)</sup>	-	-							✓
<b>volzElektro 6216 PV1</b>	PET Film	Si	0,100	0,125	Green	≥ 4,00	-	-	5000		+230°C <sup>(4)</sup>	-	-	✓						✓
<b>volzBand 6057V</b>	Acrylic Coated Rayon Cloth	RT	0,190	0,230	Gray	9,90	146,00	10	1500		+260°C <sup>(4)</sup>	-	-	✓	✓					✓
High Temperature Masking																				
<b>volzKrepp 3018</b>	Fine Crepe Paper	R	-	0,185	Beige	7,70	114,00	10	-		+163°C <sup>(4)</sup>	-	-							✓
<b>volzKrepp 3018 PV2</b>	Fine Crepe Paper	R	-	0,170	Beige	7,50	110,00	13	-		+232°C <sup>(4)</sup>	-	-		✓					✓
<b>IPG® MM (MINT MASK)</b>	Crepe Paper	R	-	0,150	Mint Green	7,60	96,20	10	-		+149°C <sup>(4)</sup>	-	-							✓

\* 9 Colors: Yellow, Red, Blue, Black, Green, White, Clear, Anthracite Gray, Copper Brown

\*\* 7 Colors: Yellow, Red, Blue, Black, Green, White, Clear

\*\*\*Technical data provided to the best of our knowledge, without obligation. A suitability test on original products prior to use is recommended.

1) Flame Resistant UL510 2) ESD Shielding 3) Backing Strip Coated 4) Temperature Resistance

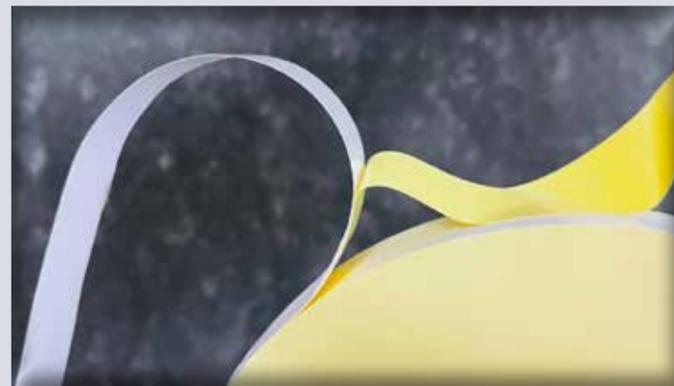
Nomex®, Kapton®, and Teflon® are registered trademarks of DuPont de Nemours. Apical® is manufactured by KANEKA, Japan. Teonex® is manufactured by Teijin, Japan.

Products in this catalog are RoHS compliant

## General Information

### Temperature Rating

Electrical adhesive tapes are assigned to specific insulation or heat class depending on their continuous heat load capacity. The corresponding letter indicates the maximum continuous temperature that the adhesive tape can tolerate over 20,000 hours without losing its properties.



Classification According to DIN EN 60085		Classification According to UL 1446			
Insulation Class	Temperature Limit	US (OANZ2) 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	
A	Acrylic
AT	Acrylic - Thermosetting
AS	Acrylic with Silver Particles
R	Natural Rubber
RT	Natural Rubber - Thermosetting
RTF	Natural Rubber - Thermosetting, Flame Retardant
Si	Silicone
SiT	Silicone - Thermosetting

Adhesive Properties	
<b>Acrylic Adhesive</b>	
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.	
<b>Natural Rubber</b>	
The addition of resins and anti-aging agents ensures high adhesion to steel and resistance to impregnating agents, however temperature resistance remains limited.	
<b>Silicone</b>	
Only polysiloxane adhesive compounds meet the requirements of insulation class H (180°C continuous temperature). An adhesive tape for extreme applications can be obtained by combining the adhesive with a non-flammable carrier (polyimide, glass cloth, etc.).	
<b>Thermosetting</b>	
The adhesive mass is solidified when heated or cured, thus decisively improving its resistance to impregnating agents.	

Thermosetting Cycles	
Acrylic and Rubber Adhesives Thermosetting	Silicone Adhesive Thermosetting
1 Hour at 150°C	2 Hours at 260°C
2 Hours at 130°C	24 Hours at 260°C / for maximum solvent resistance
3 Hours at 120°C	

Slitting Tolerance		
Film	± 0,4 mm	(± 1/64")
Cloths	± 0,4 mm	(± 1/64")
Laminates	± 0,4 mm	(± 1/64")
Length > 100 m	± 0,8 mm	(± 1/32")
Smaller Cutting Tolerances Possible by Request		

## Custom Die-Cuts: Precision Meets Performance

Die-cuts made from adhesive tape for electrical insulation play a vital role in the manufacture of transformers, spools, electric motors, printed circuit boards, and in powder coating applications. They offer excellent insulation and mechanical stability, and provide precision, ensuring reliable performance and long-term durability.



In transformers and spools, die-cuts enable precise windings and stable mechanical connections that can easily withstand high temperatures and electrical loads.



Die-cut parts grant precise positioning and reliable insulation of motor windings, enhancing both the efficiency and the service life of electric motors.



During powder coating, die-cut parts ensure precise masking and insulation, supporting uniform coating quality and preventing localized overheating that could compromise performance.



Printed Circuit Boards rely on die-cuts to provide reliable component positioning and insulation to enhance performance and extend circuit life.

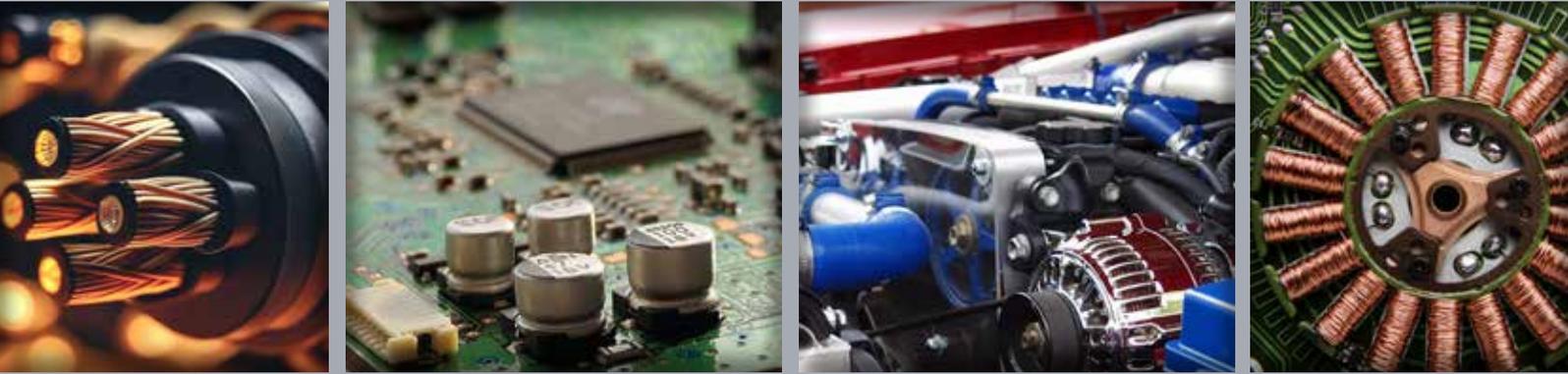
Die-cut parts are available as individual pieces or on rolls and can be seamlessly integrated into a wide range of manufacturing processes, from manual assembly of small batches to fully automated production lines.

**VOLZ® TAPES Custom Die-Cuts Optimize Production Processes and Maximize Performance**





Volz Selbstklebetechnik GmbH  
Fischerinsel 3  
DE - 79227 Schallstadt  
+49 7664 50500 - 0  
info@volztapes.com



## Additional Product Catalogs



volzFix & volzMount double-sided adhesive tapes for industrial applications - where strong adhesion, precise mounting, and durable bonding is required.



volzAcrylicFoam adhesive tapes for flexible, permanent bonding in demanding industrial applications.

Available for download:



[www.volztapes.com](http://www.volztapes.com)