



INDUSTRIAL TAPE PRODUCT GUIDE



POLYESTER FILM TAPES

Ideal Tape's complete line of pressure-sensitive polyester film tapes are backed by more than 100 years of industrial experience. These products are widely used for web and film splicing, electronic component assembly, PCB/powder coat masking, composite bonding, surface protection, and as an electrical or thermal insulator.



Silicone Adhesives

Product	Color	Backing/ Total Thickness mils (mm)	Adhesion to Steel oz/in (N/25 mm)	Tensile Strength lbs/in (N/25 mm)	Elongation	Description	→
9144	Clear	1.0 (0.03)/ 2.5 (0.06)	30.0 (8.2)	25.0 (109.0)	100%	For high temperature masking and splicing applications.	
9244	Clear	2.0 (0.05)/ 3.5 (0.09)	40.0 (11.0)	50.0 (219.0)	120%	2 mil film version of 9144 with increased abrasion resistance for masking and splicing applications. Boeing Approved: BAC-5034.	→
9111	Aqua	1.0 (0.03)/ 3.0 (0.08)	30.0 (8.2)	25.0 (109.0)	100%	Engineered for splicing applications.	
9190	Blue	1.0 (0.03)/ 3.0 (0.08)	25.0 (6.8)	25.0 (109.0)	100%	High performance adhesive system designed for printed circuit board protection and high temperature masking.	
9290	Blue	2.0 (0.05)/ 4.0 (0.10)	25.0 (6.8)	50.0 (219.0)	120%	High performance adhesive system designed for printed circuit board protection and high temperature masking. 2 mil film backing provides durability.	
9148	Dark Blue	1.0 (0.03)/ 2.5 (0.06)	30.0 (8.2)	25.0 (109.0)	100%	Made to withstand composite bonding and high temperature masking applications.	→
9248	Dark Blue	2.0 (0.05)/ 3.5 (0.09)	40.0 (11.0)	50.0 (219.0)	120%	Made to withstand composite bonding and high temperature masking applications.	→
9548	Dark Blue	5.0 (0.13)/ 6.5 (0.17)	40.0 (11.0)	125.0 (547.0)	120%	Made to withstand composite bonding and high temperature masking applications.	→
9185	Green	1.0 (0.03)/ 4.0 (0.10)	25.0 (6.8)	25.0 (109.0)	100%	High performance adhesive system designed for printed circuit board protection and high temperature masking.	
9285	Green	2.0 (0.05)/ 4.0 (0.10)	25.0 (6.8)	50.0 (219.0)	120%	High performance adhesive system designed for printed circuit board protection and high temperature masking. 2 mil film backing provides durability.	
9249	Dark Green	2.0 (0.05)/ 3.5 (0.09)	40.0 (11.0)	50.0 (219.0)	120%	Powder coat masking tape.	
9180	Red	1.0 (0.03)/ 4.0 (0.10)	35.0 (9.6)	25.0 (109.0)	100%	High performance adhesive system designed for printed circuit board protection and high temperature masking.	
9182	Red	1.0 (0.03)/ 2.5 (0.06)	30.0 (8.2)	25.0 (109.0)	100%	Made to withstand composite bonding and high temperature masking applications.	
9110	Violet	1.0 (0.03)/ 2.5 (0.06)	30.0 (8.2)	25.0 (109.0)	100%	For high temperature masking and splicing applications.	
9210	Violet	2.0 (0.05)/ 3.5 (0.09)	40.0 (11.0)	50.0 (219.0)	120%	Temporary protection of production materials, parts, and assemblies with pressure sensitive tape. Boeing Approved; BAC 5034.	→
9220	Violet	2.0 (0.05)/ 4.0 (0.10)	45.0 (12.3)	50.0 (219.0)	120%	Heavier coating of silicone adhesive for more demanding splicing applications.	

Rubber Adhesives

Product	Color	Backing/ Total Thickness mils (mm)	Adhesion to Steel oz/in (N/25 mm)	Tensile Strength lbs/in (N/25 mm)	Elongation	Description	→
605	Clear	5.0 (0.13)/ 6.0 (0.15)	45.0 (12.3)	125.0 (547.0)	120%	Heavy duty surface protection tape with easy release liner.	
702	Clear	2.0 (0.05)/ 3.5 (0.09)	45.0 (12.3)	50.0 (219.0)	100%	Multipurpose product suitable for a variety of industrial and aerospace applications.	→
702-5	Clear	5.0 (0.13)/ 7.0 (0.18)	85.0 (23.3)	125.0 (547.0)	120%	Heavy duty surface protection and hold down tape suitable for a variety of industrial and aerospace applications.	→
9261	Green	2.0 (0.05)/ 4.0 (0.10)	30.0 (8.2)	20.0 (88.0)	300%	2 mil nylon (polyamide) film with high temperature rubber adhesive. Designed for composite bonding and metal folding applications.	→
9145	Orange	1.0 (0.03)/ 2.0 (0.05)	10.0 (2.7)	25.0 (109.0)	100%	Low tack adhesive for surface protection. Easy clean removal.	
9166	Green	1.0 (0.03)/ 3.0 (0.08)	30.0 (8.2)	25.0 (109.0)	100%	High performance rubber adhesive system used in composite bonding applications.	→
9266	Green	2.0 (0.05)/ 4.0 (0.10)	30.0 (8.2)	50.0 (219.0)	100%	High performance rubber adhesive system used in Aerospace and composite bonding applications.	→
9566	Green	5.0 (0.13)/ 7.0 (0.18)	30.0 (8.2)	125.0 (547.0)	120%	High performance rubber adhesive system used in Aerospace and composite bonding applications.	→

Acrylic Adhesive

Product	Color	Backing/ Total Thickness mils (mm)	Adhesion to Steel oz/in (N/25 mm)	Tensile Strength lbs/in (N/25 mm)	Elongation	Description
505	Silver	1.0 (0.03)/ 2.0 (0.05)	30.0 (8.2)	18.0 (79.0)	60%	Metalized polyester film.



ALUMINUM FOIL TAPES

When maximum resistance to air pressure, moisture, and radiant heat (UV) is required, nothing outperforms Ideal Tape's wide variety of aluminum foil backings. Common applications include heat shielding, paint stripping/refinishing, as well as the sealing of commercial/industrial HVAC and Insulation systems.



Specialty Applications

Product	Color	Adhesive System	Backing/ Total Thickness mils (mm)	Adhesion to Steel oz/in (N/25 mm)	Tensile Strength lbs/in (N/25 mm)	Elongation	Description	→
489 Self Wound	Silver	Acrylic	3.0 (0.08)/ 4.8 (0.12)	75.0 (20.5)	29.0 (127.0)	5%	Multipurpose, linerless aluminum foil tape. UL 723. Boeing approval; BAC 5034 - 4.	→
489L	Silver	Acrylic	3.0 (0.08)/ 4.8 (0.12)	75.0 (20.5)	29.0 (127.0)	5%	Linerless version of 489.	
489 D	Silver	Acrylic	3.0 (0.08)/ 4.8 (0.12)	75.0 (20.5)	29.0 (127.0)	5%	Specialized version of 489 made with a die cut liner for better converting performance.	
777*	Silver	Acrylic	6.0 (0.15)/ 7.5 (0.19)	80.0 (2,234 g/25 mm)	4,400 psi	270%	Heavy duty aluminum foil laminate; puncture/tear resistant, zero perm. Light weight alternative to metal in radiant heat reflective applications. Excellent as a patch or repair tape.	

* 777 is available in aluminum embossed, smooth, and white.

General Purpose

Product	Color	Adhesive System	Backing/ Total Thickness mils (mm)	Adhesion to Steel oz/in (N/25 mm)	Tensile Strength lbs/in (N/25 mm)	Elongation	Description
488	Silver	Rubber	2.0 (0.05)/ 3.5 (0.09)	90.0 (25.0)	20.0 (88.0)	3%	Performance aluminum coated with high tack rubber adhesive. Fast, permanent bonds.
488S	Silver	Rubber	1.25 (0.03)/ 2.8 (0.07)	90.0 (25.0)	14.0 (61.0)	3%	Standard grade aluminum foil with high tack rubber adhesive.
488ECO	Silver	Rubber	1.1 (0.03)/ 2.6 (0.07)	90.0 (25.0)	12.0 (53.0)	3%	Thinnest, most cost effective aluminum foil tape.
788	Silver	Acrylic	2.0 (0.05)/ 3.5 (0.09)	90.0 (25.0)	20.0 (88.0)	3%	Aluminum foil coated with performance acrylic adhesive designed for use in a wide temperature range.
788D	Silver	Acrylic	2.0 (0.05)/ 3.5 (0.09)	90.0 (25.0)	14.0 (61.0)	3%	Specialized version of 788 made with a die cut liner for better converting performance.

AEROSPACE TAPES

Engineered and approved to meet the most stringent industry specifications, Ideal Tape's pressure-sensitive Aerospace products feature a variety of advanced adhesive formulations and backings to handle composite bonding, high temperature masking, and aircraft refinishing applications.

Product	Color	Adhesive System	Backing/ Total Thickness mils (mm)	Adhesion to Steel oz/in (N/25 mm)	Tensile Strength lbs/in (N/25 mm)	Elongation	Description	Boeing Specs
9244	Clear	Silicone	2.0 (0.05)/ 3.5 (0.09)	40.0 (11.0)	50.0 (219.0)	100%	Temporary protection of production materials, parts and assemblies.	BAC 5034
9148	Dark Blue	Silicone	1.0 (0.03)/ 2.5 (0.06)	30.0 (8.2)	25.0 (109.0)	100%	Performance design for composite bonding and high temperature masking applications.	
9248	Dark Blue	Silicone	2.0 (0.05)/ 3.5 (0.09)	40.0 (11.0)	50.0 (219.0)	100%	Performance design for composite bonding and high temperature masking applications.	
9548	Dark Blue	Silicone	5.0 (0.13)/ 6.5 (0.17)	40.0 (11.0)	125.0 (547.0)	120%	Performance design for composite bonding and high temperature masking applications.	
9210	Violet	Silicone	2.0 (0.05)/ 3.5 (0.09)	40.0 (11.0)	50.0 (219.0)	100%	Temporary protection of production materials, parts and assemblies.	BAC 5034
223 Double Coated Cotton	White	Rubber	8.0 (0.20)/ 11.0 (0.28)	50.0 (13.7)	53.0 (232.0)	8%	Provides excellent bonding and holding strength under demanding shear conditions in manufacturing operations.	BAC 5317 BAC 5578
702	Clear	Rubber	2.0 (0.05)/ 3.5 (0.09)	45.0 (12.3)	50.0 (219.0)	100%	Multipurpose product suitable for a variety of bundling and hold-down aerospace applications.	BAC 5317 BAC 5578 BAC 5034
702-5	Clear	Rubber	5.0 (0.13)/ 7.0 (0.18)	85.0 (23.3)	125.0 (547.0)	120%	Provides excellent bonding and holding strength under demanding shear conditions in manufacturing operations.	BAC 5317 BAC 5578 BAC 5034
9166	Green	Rubber	1.0 (0.03)/ 3.0 (0.08)	30.0 (8.2)	25.0 (109.0)	100%	High performance rubber adhesive system used in composite bonding applications.	BAC 5578
9261	Green	Rubber	2.0 (0.05)/ 4.0 (0.10)	30.0 (8.2)	20.0 (88.0)	300%	A 2-mil nylon (polyamide) film with high temperature rubber adhesive. Designed for composite bonding & metal folding applications.	BAC 5578
9266	Green	Rubber	2.0 (0.05)/ 4.0 (0.10)	30.0 (8.2)	50.0 (219.0)	100%	High performance rubber adhesive system used in Aerospace and composite bonding applications.	BAC 5578
9566	Green	Rubber	5.0 (0.13)/ 7.0 (0.18)	30.0 (8.2)	125.0 (547.0)	120%	High performance rubber adhesive system used in Aerospace and composite bonding applications.	

POLYIMIDE OR KAPTON FILM TAPES

Polyimide films provide the high level of thermal resistance & dielectric strength needed for demanding electrical insulation & similar high temperature applications. Ideal Tape's silicone & acrylic coating technology guarantees the performance of these products under the most demanding conditions.

Product	Color	Adhesive System	Backing/ Total Thickness mils (mm)	Adhesion to Steel oz/in (N/25 mm)	Tensile Strength lbs/in (N/25 mm)	Elongation	Description
IT-7177	Amber	Acrylic	1.0 (0.03)/ 2.5 (0.06)	35.0 (9.6)	30.0 (131.0)	50%	High temperature acrylic adhesive and puncture resistant. Highly conformable and withstands temperatures up to 155°C.
IT-7170	Amber	Silicone	1.0 (0.03)/ 2.5 (0.06)	20.0 (5.5)	35.0 (153.0)	50%	High temperature silicone adhesive and puncture resistant. Highly conformable and withstands temperatures up to 180°C.
IT-7170K	Amber	Silicone	1.0 (0.03)/ 2.5 (0.06)	20.0 (5.5)	35.0 (153.0)	50%	Made with DuPont™ Kapton®. High temperature silicone adhesive and puncture resistant. Highly conformable and withstands temperatures up to 180°C.
IT-7270	Amber	Silicone	2.0 (0.05)/ 3.5 (0.09)	20.0 (5.5)	65.0 (285.0)	60%	Extreme puncture and temperature resistance with silicone adhesive that withstands temperatures up to 180°C.
IT-7270K	Amber	Silicone	2.0 (0.05)/ 3.5 (0.09)	20.0 (5.5)	65.0 (285.0)	60%	Made with DuPont™ Kapton®. Extreme puncture and temperature resistance with silicone adhesive that withstands temperatures up to 180°C.



FABRIC AND DOUBLE-SIDED TAPES

Product	Color	Adhesive System	Backing/ Total Thickness mils (mm)	Adhesion to Steel oz/in (N/25 mm)	Tensile Strength lbs/in (N/25 mm)	Elongation	Description	→
220 Cotton	White	Rubber	8.0 (0.20)/ 9.5 (0.24)	30.0 (8.2)	35.0 (153.0)	5%	Medium strength cotton cloth tape.	
223 Double Coated Cotton	White	Rubber	8.0 (0.20)/ 11.0 (0.28)	50.0 (13.7)	53.0 (232.0)	8%	Provides excellent bonding and holding strength under demanding shear conditions in manufacturing operations.	→
888 Double Coated Polyester	Clear	Acrylic Thermosetting	0.5 (0.01)/ 3.75 (0.10)	50.0 (13.7)	18.0 (79.0)	5%	High tack adhesive system is UV and chemical resistant. Easy to use, fast, secure, and bonds to a variety of surfaces.	

ELECTRICAL INSULATION TAPES

THERM-X[®]

POLYESTER TAPES

UL FILE NO. E-82910

Product	Color	Adhesive System	Backing/ Total Thickness mils (mm)	Adhesion to Steel oz/in (N/25 mm)	Dielectric Breakdown (Volts)	Tensile Strength lbs/in (N/25.4 mm)	Elongation	Description
IT-7017	Clear	Acrylic Thermosetting	1.0 (0.03)/ 2.5 (0.06)	35.0 (9.6)	5,000	23.0 (101.0)	100%	Tough, conformable and thin. Excellent solvent resistance.
IT-701	Clear	Rubber Thermosetting	1.0 (0.03)/ 2.5 (0.06)	40.0 (10.9)	5,000	23.0 (101.0)	100%	Tough, thin and abrasion resistant. Features a non-corrosive adhesive system.
IT-702	Clear	Rubber Thermosetting	2.0 (0.05)/ 3.5 (0.09)	45.0 (12.3)	5,000	50.0 (219.0)	100%	Designed for use in a range of insulation applications on wound coils, connections, and crossovers.
IT-7007	Yellow	Acrylic Thermosetting	1.0 (0.03)/ 2.5 (0.06)	35.0 (9.6)	5,000	23.0 (101.0)	100%	Designed for use as an outer wrap on capacitors and coils. Also excellent for bundling applications.
IT-700	Yellow	Rubber Thermosetting	1.0 (0.03)/ 2.5 (0.06)	40.0 (10.9)	5,000	23.0 (101.0)	100%	Non-corrosive rubber adhesive system resists degradation from chemicals and other contaminants.
IT-703	Yellow	Rubber Thermosetting	2.0 (0.05)/ 3.5 (0.09)	45.0 (12.3)	5,000	50.0 (219.0)	100%	Tough and abrasion resistance, withstands temperatures up to 130°C.
IT-750	Natural	Rubber Thermosetting	4.0 (0.10)/ 5.0 (0.13)	35.0 (9.6)	5,000	60.0 (263.0)	100%	Composite polyester film/ non-woven backing provides excellent strength and puncture resistance.
IT-750A	Natural	Rubber Thermosetting	5.0 (0.13)/ 6.5 (0.17)	65.0 (17.8)	5,000	60.0 (263.0)	100%	Composite polyester film/ non-woven backing provides excellent strength and puncture resistance.

FABRIC TAPES

Product	Color	Adhesive System	Backing/ Total Thickness mils (mm)	Adhesion to Steel oz/in (N/25 mm)	Dielectric Breakdown (Volts)	Tensile Strength lbs/in (N/25.4 mm)	Elongation	Description
IT-720 Polyester	White	Rubber Thermosetting	5.0 (0.13)/ 8.0 (0.20)	45.0 (12.3)	1,000	115.0 (503.0)	35%	Coil wrap for capacitors and transformers. Polyester cloth backing provides abrasion protection and puncture resistance.
IT-721 Cotton	White	Rubber Thermosetting	7.5 (0.19)/ 9.5 (0.24)	25.0 (6.8)	1,000	35.0 (153.0)	5%	Designed for use as a coil wrap in transformers. Also excellent for hold down and bundling applications.
IT-730 Fiberglass	White	Rubber Thermosetting	5.0 (0.13)/ 7.0 (0.18)	40.0 (10.9)	2,000	170.0 (744.0)	8%	Glass cloth with performance rubber adhesive system. Resists flagging and contamination from varnish chemicals or solvents.
IT-7300 Fiberglass	White	Silicone Thermosetting	5.0 (0.13)/ 7.0 (0.18)	40.0 (10.9)	3,000	170.0 (744.0)	8%	Glass cloth with performance high temperature silicone adhesive system. Delivers high heat performance and resists flagging and contamination from varnish chemicals or solvents.

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All product properties are measured in accordance with Pressure Sensitive Tape Council and/or ASTM test methods. The physical properties listed above are typical values and are not to be construed as specifications. Our suggestions and recommendations for use are based on tests we believe to be reliable. However, the purchaser must determine the suitability of the product for his intended use. Ideal Tape Co., Inc. assumes no liability for claims beyond the replacement value of our product proved to be defective. 10/2020