



Electrical & Electronic Tape Products





Intertape® Electrical and Electronic Tapes are available with a wide range of backings and adhesive systems to meet the demanding application requirements of industry today. These specialty products are manufactured under the strictest standards to deliver the highest level of performance reliability. Many IPG Electrical Insulation Tapes are UL listed (File #E20780) and CSA Certified (File #LR94980). With the most comprehensive product line in the industry, Intertape Polymer Group™ has the ideal solution to your most demanding situations.



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IPG Product Offering:

As one of the leading manufacturers of Industrial Tapes in North America, Intertape Polymer Group™ (IPG) is proud of our extensive industrial product offering. No other supplier can match our commitment to our market and customers. Our philosophy is to develop exciting new products and markets, combine them with our established premier products, the resources of our strategic suppliers and the network of our dedicated distributors. This approach makes IPG the supplier of choice for the full range of Industrial Tapes.

Hot-Melt Carton-Sealing Tape
Acrylic Carton-Sealing Tape
Natural Rubber Carton-Sealing Tape
Water Activated (WAT) Carton-Sealing Tape
Cloth/Duct HVAC Tape
Masking Tape

Flatback Tape
Electronic Tape
Electrical Tape
Filament Tape
Glass/Cloth Tape
Packaging Equipment

Polyester Films

IPG's Polyester Film Tapes provide excellent conformability and high dielectric strength per mil of thickness.

		Polyester Backing mils	Total Thickness mils (mm)	Adhesion to steel oz/in (N/cm)	Tensile Strength lbs/in (N/cm)	Dielectric Strength Total Volts	Temp Rating °C
Acrylic							
Elongation 100%. Abrasion and moisture resistant. Applications: coil wrapping, anchoring, harnessing, holding, slot edging in transformers and motors.							
51562*	Flame retardant. High temperature and abrasion resistant. Excellent electrical insulating properties. Good for inter-layer insulation. Yellow, White.	2	3.5 (0.089)	45 (4.9)	50 (88)	7,500	130
51589	Solvent resistant. Excellent long-term aging characteristics. Black, Clear, Yellow.	1	2.2 (0.056)	35 (3.8)	25 (44)	5,000	130
51592	Solvent resistant. Excellent long-term aging characteristics. Yellow.	2	3.7 (0.094)	55 (6.0)	50 (88)	7,500	130
54113	High temperature shear, abrasion and puncture resistant. Ideal for film wrap capacitors and where maximum insulation build up is required. Clear, Yellow.	1	2.4 (0.061)	45 (4.9)	25 (44)	5,000	130
54143	High temperature shear and abrasion resistant. Ideal for film wrap capacitors and where maximum insulation build up is required. Clear, Yellow.	1.4	3.0 (0.076)	50 (5.5)	38 (66)	6,000	130
Rubber Thermosetting							
Elongation 100%. Tough and conformable. Abrasion and moisture resistant. Excellent electrical insulating properties. Applications: coil wrapping, anchoring, harnessing, holding, insulating, tabbing and inter-layer insulation.							
51587	Resists chemicals and solvents when thermoset. Excellent electrical insulating properties. Yellow, Black. MIL-1-15126F MF 2.5.	1	2.2 (0.056)	50 (5.5)	25 (44)	5,000	130
51588	Resists chemicals and solvents when thermoset. Excellent electrical insulating properties. Clear. MIL-1-15126F MF 2.5.	1	2.2 (0.056)	50 (5.5)	25 (44)	5,000	130
51594	Resists chemicals and solvents when thermoset. Excellent electrical insulating properties. Ideal on fine gauge magnet wire. Lemon yellow.	1	2.0 (0.051)	45 (4.9)	25 (44)	5,000	130
54107	Excellent electrical insulating properties and high thermoset cure. Yellow.	1	2.4 (0.061)	40 (4.4)	25 (44)	5,000	130
Cured Rubber							
Elongation 100%. Tough and conformable. Abrasion and moisture resistant.							
54108	Excellent electrical insulating properties and high initial cure. Ideal for high shear resistance at elevated temperatures. Off-white.	1	2.4 (0.061)	50 (5.5)	25 (44)	5,000	130

Polyester Laminates

To meet a wide range of industrial needs, IPG offers two types of Polyester Laminate Tape. Paper/Polyester Laminates provide excellent bulk and stiffness in an easy-to-tear product. Polyester/Non-Woven Laminates are puncture resistant, and highly conformable. They're available with acrylic adhesives for performance in higher temperature environments.

		Backing Thickness mils (mm)	Total Thickness mils (mm)	Adhesion to steel oz/in (N/cm)	Tensile Strength lbs/in (N/cm)	Elongation	Dielectric Strength Total Volts	Temp Rating °C
Acrylic								
Multi-purpose tape for applications which require a combination of tear and puncture resistance, high tensile strength with elongation and excellent dielectric strength. Applications: high volume coil wrapping, ground and barrier insulation, outer protective wrap for bobbin applications, coil end insulation anchoring leads and terminal boards.								
51595	155°C UL rating. White.	3.5 polyester non-woven	4.5 (0.114)	50 (5.5)	30 (52)	30%	5,000	155
Rubber Thermosetting								
Excellent solvent resistance. Applications: slot edging, lead anchoring, coil wrapping, inter-phase/interlayer insulation.								
4426	Low cost, all-purpose electrical tape. Black, Natural.	4 polyester rope fiber	6.0 (0.152)	60 (6.6)	45 (79)	2%	5,500	130
4427	Economical and versatile. Natural.	3.5 polyester rope fiber	5.5 (0.140)	60 (6.6)	40 (70)	2%	4,500	130
51578	Excellent solvent resistance. Natural.	3.5 polyester rope fiber	5.5 (0.140)	70 (7.7)	40 (70)	2%	4,500	130
51596	Tear and puncture resistant. High tensile strength. Excellent dielectric strength. Black, Tan.	3.5 polyester non-woven	4.5 (0.114)	60 (6.6)	30 (53)	30%	5,000	130
51580	Coil and transformer wrapping, anchoring, harnessing and outer-wrap for coils. Natural.	4 polyester non-woven	5.0 (0.127)	55 (6.0)	45 (79)	25%	5,500	130



polyester laminate

Glass Filament

The combination of polyester film with glass filament reinforcement delivers high tensile strength, making these tapes excellent for heavy duty bundling and insulation applications. The properties of our Glass Filament Polyester Film Tapes include superior resistance to chemicals, solvents and aging. All products average 5% elongation.

		Polyester Glass mils	Total Thickness mils (mm)	Adhesion to steel oz/in (N/cm)	Tensile Strength lbs/in (N/cm)	Dielectric Strength Total Volts	Temp Rating °C
Acrylic							
High tensile strength, conformable backing with aggressive adhesive for a variety of heavy duty insulating and holding applications. Resistant to chemicals, solvents and aging. Offers high dielectric strength and insulation resistance.							
4238	Lead and saddle tie down, bundling motor and transformer coils and coil covering applications. Transparent adhesive.	6.5	7.5 (0.190)	45 (4.9)	375 (657)	6,000	155
51597	Slot edging, holding, separating ground insulation, bundling and transformer coils. Transparent adhesive.	5.5	6.5 (0.165)	40 (4.4)	250 (438)	5,000	155
Rubber Thermosetting							
51599	Lead and saddle tie down, bundling motor and transformer coils and coil covering applications. Natural.	5.0	7.0 (0.178)	60 (6.6)	350 (613)	5,000	130

glass filament



Glass Cloth

When the situation calls for high heat resistance and tensile strength, Glass Cloth Tapes are ideal for many electrical insulation requirements. They offer outstanding flexibility and conformability. Choose from IPG Glass Cloth Tapes with thermosetting rubber, acrylic or silicone adhesives.

		Total Thickness mils (mm)	Adhesion to steel oz/in (N/cm)	Tensile Strength lbs/in (N/cm)	Elongation	Dielectric Strength Total Volts	Temp Rating °C
Acrylic							
Inert, temperature resistant, high tensile strength backing with an acrylic adhesive. combines high adhesion and strength with excellent puncture and abrasion resistance. Acrylic adhesive system provides outstanding resistance to oils, solvents and chemicals. Excellent conformability remains flexible after cure. Applications: Inter-layer insulation, coil outer wraps, tie-downs, lead insulation and protection. Electrical motor and generator binding.							
4617	White.	7.0 (0.178)	40 (4.4)	200 (350)	3%	2,500	155
54562	Uniform unwind. White.	9.0 (0.229)	45 (4.9)	195 (341)	5%	3,000	155
Rubber Thermosetting							
Woven fiberglass backing imparts high temperature resistance and thermal stability and offers outstanding abrasion resistance for a large number of applications.							
461FR*	Self-extinguishing. Harness and cable wrapping. Black.	8.0 (0.203)	40 (4.4)	175 (307)	3%	2,500	130
4616	High adhesion. Solvent and tear resistant. Coil insulation wrap, relay coverings, protective insulating wrap on solenoid coils, splicing. Black, White.	7.0 (0.178)	50 (5.5)	175 (307)	3%	2,500	155
Silicone							
High strength backing and heat resistant silicone adhesive for high temperature applications. Motor repair shops for bundling and banding heavy gauge magnet wire. Slot cell edge taping. MIL-1-19166C.							
4618*	Resists edge fraying and rotting. Flexible and varnish absorbent. Solvent and abrasion resistant. Flame retardant. White.	7.0 (0.178)	40 (4.4)	185 (324)	3%	2,500	200



glass cloth

Specialty Electrical

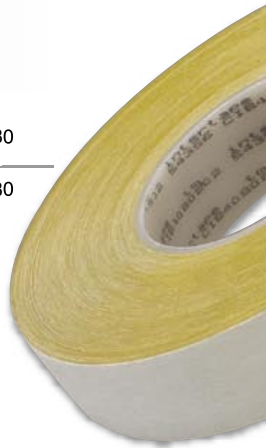
High voltage insulation applications put extra demands on tape. IPG offers a line of Specialty Electrical Tapes with unique characteristics suited to these situations, including zone coating that allows for complete varnish impregnation.

Product Number	Backing	Total Thickness mils (mm)	Colors	Adhesion to steel oz/in (N/cm)	Tensile Strength lbs/in (N/cm)	Elongation	Dielectric Strength Total Volts	Temp Rating °C
Thermosetting Acrylic								
56228FR	2.0 mil Nomex®*	3.5 (0.089)	off-white	40 (4.4)	25 (44)	8%	2,500	155
54356	8.5 mil polyester Nomex®	10 (0.254)	off-white	50 (5.5)	25 (44)	80%	6,000	155
Acrylic Zone-Coated								
4564	2.4 mil polyester fleece	6.5 (0.165)	natural	32 (3.5)	17 (30)	35%	500	130

Acetate Cloth

When you want the convenience of a hand-tearable tape with outstanding product features, IPG's Acetate Cloth Tapes are a smart choice. The acetate cloth backing and a thermosetting rubber adhesive system provide high adhesion with conformability, printability and excellent insulating properties.

		Total Thickness mils (mm)	Adhesion to steel oz/in (N/cm)	Tensile Strength lbs/in (N/cm)	Dielectric Strength Total Volts	Temp Rating °C
Rubber Thermosetting						
Average 15% elongation. Applications: coil wrapping, inter-layer insulation, tabbing.						
4560	High adhesion. Will accept varnish impregnation. Black, White.	7.0 (0.178)	45 (4.9)	40 (70)	2,000	130
4570*	Flame retardant. Suitable for banding. Black, White.	7.5 (0.19)	38 (4.2)	40 (70)	2,500	130



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acetate cloth

specialty

Polyimide Films

For outstanding thermal resistance and excellent dielectric strength, choose IPG tapes with polyimide backing. They're tough, puncture resistant and flame retardant – and ideal for high temperature insulation and processing environments.

		Backing	Total Thickness mils (mm)	Adhesion to steel oz/in (N/cm)	Tensile Strength lbs/in (N/cm)	Dielectric Strength Total Volts	Temp Rating °C
Acrylic							
Excellent chemical and thermal resistance. Applications: bundling and inter-layer insulation in high temperature transformers and large DC mining and traction motors.							
51579	Tough, Excellent insulating properties. Puncture resistant. Amber.	1 mil polyimide	2.2 (0.056)	30 (3.3)	30 (53)	7,000	155
Silicone							
Outstanding thermal resistance and excellent electrical insulating properties. For use where toughness, puncture resistance, extreme resistance to heat and flame retardance is required. Applications: gold fingers for protection in wave soldering. Ground barrier and phase insulation in toroidal coils.							
4118*	Kapton® polyimide backing. Outer wrap on small bobbin wound coils and on form wound coils for traction motors. Amber.	1 mil Kapton®	2.5 (0.064)	25 (2.7)	30 (53)	7,000	180
4428	Amber.	1 mil polyimide	2.5 (0.064)	25 (2.7)	30 (53)	7,000	180
4429	Extra strength. Amber.	2 mil polyimide	3.5 (0.089)	25 (2.7)	65 (114)	11,000	180

Powder Coating Products

These tapes are designed for high temperature “powder coat” masking and PCB protection during various production phases. Also suitable for splicing.

		Tensile (lbs./in.)	Adhesion (oz./in.)	Thickness (mils.)	Elongation (%)
Powder Coating Tapes					
6215	2.0 PET, silicone adhesive, high temp. masking/green	50	35	3.4	100
6120	1.0 PET, silicone adhesive, high temp. masking/blue	25	30	3.2	100
6130	1.0 PET, silicone adhesive, high temp. splicing/red	25	45	4.0	100
PG21	Extremely versatile, warm or cold removal.	26	28	7.3	10.0

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polyimide films

powder coating

Specialty Non-UL

Each product is specifically designed for a variety of high temperature applications. Unique applications include splicing rough surface materials and masking off sensitive areas to protect during plasma/thermal spray operations.

		Tensile (lbs./in.)	Adhesion (oz./in.)	Thickness (mils.)	Elongation (%)
Masking & Splicing Tapes					
LA-26	Polyester/rope fiber laminate. Offers bulk and stiffness; hand tears for tabbing, holding and wrapping. Black.	45	60	6.0	2.0
FM-28	1.0 Polyimide backed silicone adhesive. Heat resistant, excellent choice for high temperature processing applications in printed circuit board fabrication.	30	25	2.5	80.0
FM-29	2.0 Polyimide backed silicone adhesive. Heat resistant, excellent choice for high temperature processing applications in printed circuit board fabrication.	65	25	3.5	80.0

Glass Cloth Tapes

Flexibility and conformability, with high heat resistance and tensile strength of the glass cloth, make these products the best solution for splicing applications – especially when surface materials are rough (textiles, roofing materials, etc.). White.

RG-46	Thermosetting rubber adhesive, resistant to strong solvents.	175	50	7.0	3.0
RG-47	Acrylic adhesive, resistant to solvents and oils.	200	40	7.0	3.0
RG-48	Silicone adhesive, masks sensitive areas to protect from plasma spray	185	40	7.0	3.0

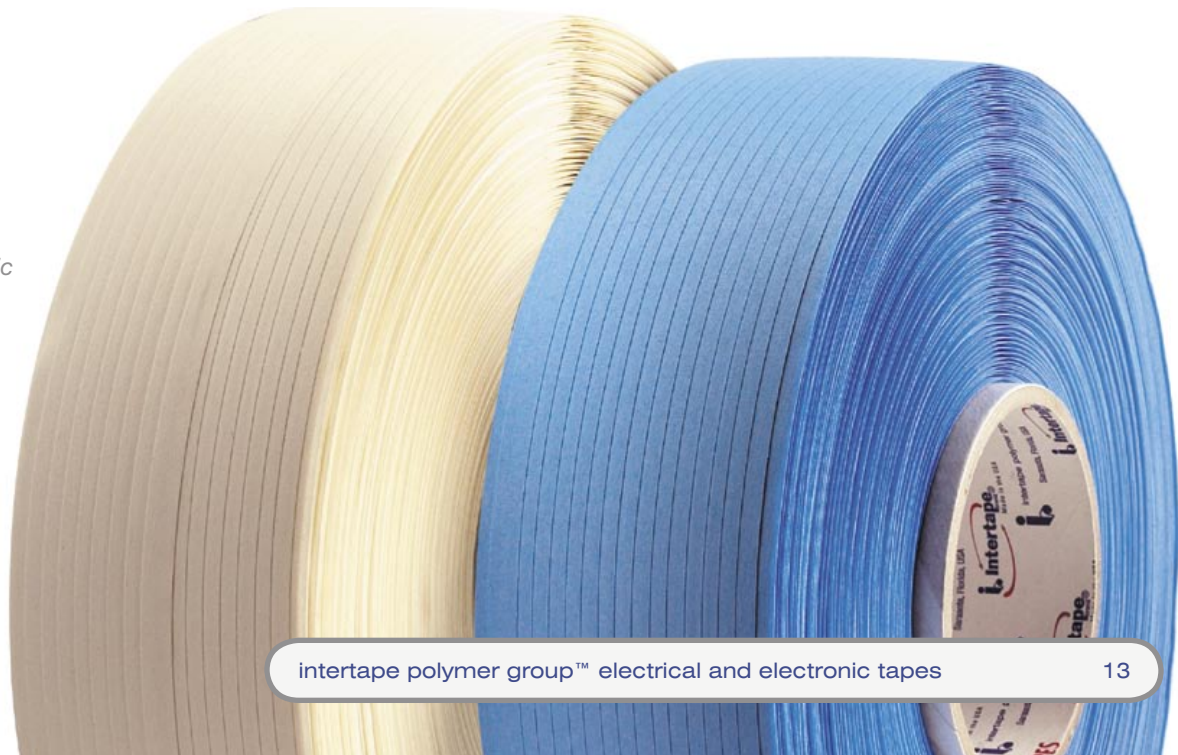


Paper Electronic

IPG Paper Electronic Tapes are designed to meet a variety of applications, including in-process and packaging needs of “through-hole” electronic component manufacturers. They’re available in a variety of strengths and paper backings. These high performance products are specially designed to perform in the most unique and demanding applications where adhesion, tensile strength, moisture, tear and burst-through resistance are required.

		Backing	Total Thickness mils (mm)	Adhesion to steel oz/in (N/cm)	Tensile Strength lbs/in (N/cm)	Elongation
High Temperature Rubber						
Stain-free adhesive is formulated to provide resistance to elevated temperatures between 350°F-176°C. Time of exposure and temperatures will vary depending on surfaces and application conditions.						
BD-21	Medium strength, having excellent tear strength and conformability to irregular surfaces. Solvent resistant. Natural color.	fine structured crepe	7.3 (0.186)	28 (3.1)	26 (46)	10%
Synthetic Rubber						
Pressure sensitive tape with excellent mass to mass adhesion.						
BD-1	High strength. High tensile strength with good edge tear resistance. Excellent stain resistance. Recommended for sequential taping and tape reeling. White, Blue.	rope flatback paper	6.0 (0.152)	61 (6.7)	49 (86)	3.5%
BD-2	Medium tensile strength with good edge tear resistance. Recommended for bandoliering, tape reeling and sequencing electronic components. White, Blue.	flatback kraft paper	6.0 (0.152)	44 (4.8)	32 (56)	3.0%
BD-4	Medium strength. Recommended for bandoliering, sequential taping. Higher elongation, firm, controlled unwind. Blue, White, Red.	medium kraft paper	6.2 (0.157)	32 (3.5)	19 (33)	6.5%
BD-24	Medium strength. Recommended for bandoliering, tape reeling and sequencing electronic components. Blue, Natural.	medium kraft paper	6.2 (0.157)	39 (4.3)	22 (38.5)	7%

paper electronic



IPG Corporate Profile

Intertape Polymer Group Inc. (IPG) is an acknowledged leader in the packaging industry. Leveraging its advanced manufacturing technologies, extensive research and development capabilities and a comprehensive strategic acquisition program, the company has assembled the broadest and deepest range of products in the industry. This strategy allows IPG to create a sustainable economic advantage for its customers through its commitment to deliver a portfolio of solutions around the most efficient supply chain in the industry.

IPG manufactures a broad range of packaging products and systems that reflect the needs of both its industrial and retail customers. These include one of the largest offerings of tape available: pressure-sensitive and water-activated, carton-sealing, masking, filament, flatback, cloth/duct, double-coated, high performance specialty, electrical, automotive, and HVAC tapes. Additional products include shrink film and stretch film as well as carton-sealing equipment, ink jet printing systems and labeling systems.

Intertape is a leader in the engineered coated products and flexible intermediate bulk container (FIBC) industries. With heavy emphasis placed on R&D, IPG is bringing to market many innovative new products for the agricultural and structural fabrics industries.

Established in 1981 with headquarters in Montreal, Quebec and Bradenton, Florida, Intertape employs approximately 2,600 employees with operations in 16 locations, including 12 manufacturing facilities in North America and Europe.

Intertape Polymer Group Inc. is a publicly traded company with its common shares listed on the New York Stock Exchange (NYSE) and the Toronto Stock Exchange (TSE) under the stock symbol "ITP."



Customer Service

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All properties are approximate, representing average figures obtained from series of controlled laboratory tests. These tests are believed to be reliable and are performed in accordance with recommended test methods which are available upon request. These values are presented for comparison purposes and do not represent a guarantee by the manufacturer. It is recommended that the tape be evaluated in its intended application before use.