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Sui On Insulating Materials Co., Ltd

瑞安复合材料(深圳)有限公司
Sui On Lamination Materials (Shenzhen) Co.,Ltd.

上海昌埭绝缘材料有限公司
Shanghai Changdai Insulating Materials Co.,Ltd.

青岛好福电工材料有限公司
Qingdao HaoFu Electrical Materials Co.,Ltd.

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SUI ON INSULATING 瑞安绝缘

优质的材料 | Prominent products

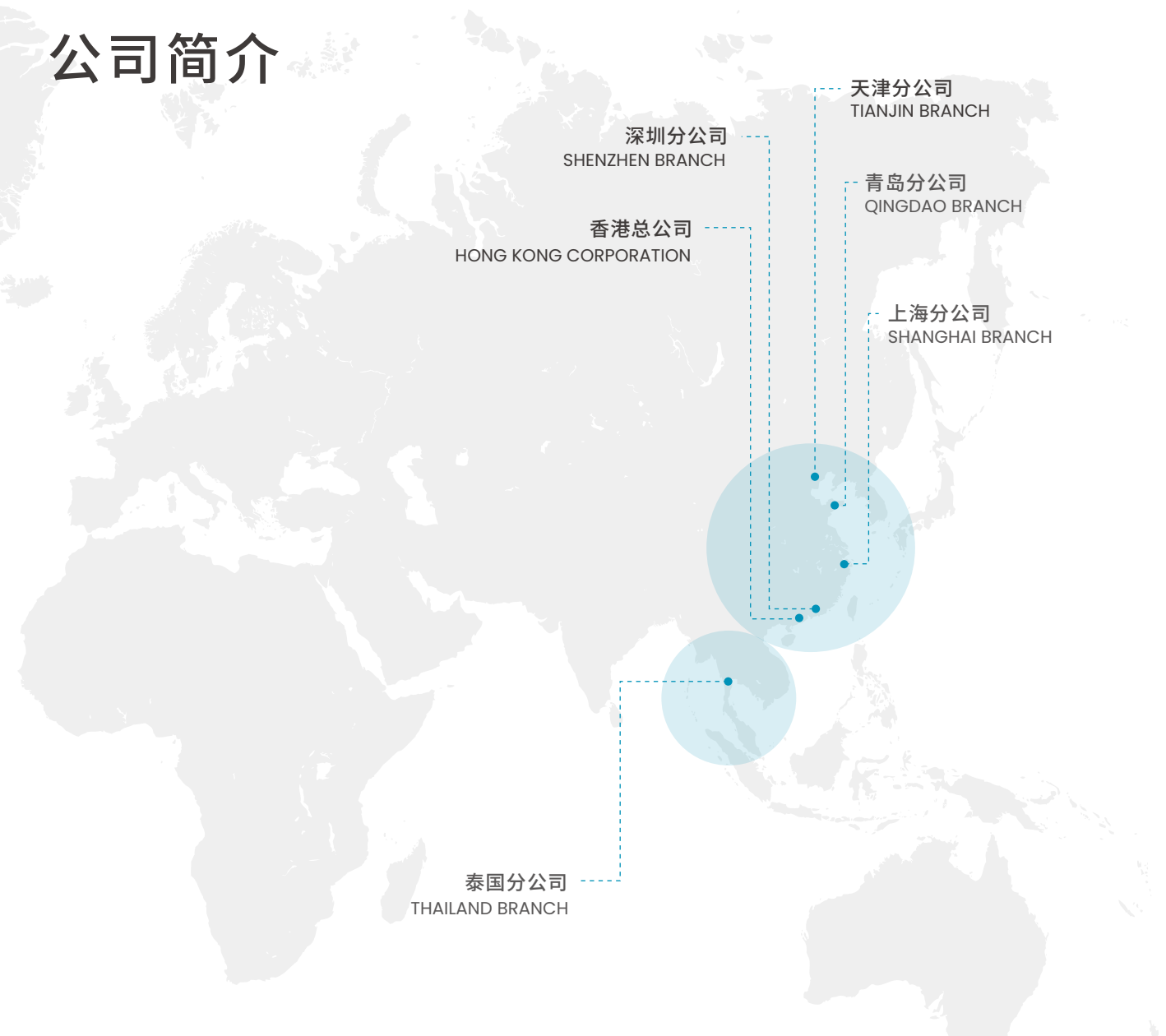
卓越的服务 | Excellent services

全面的配套 | Integrated supporting



COMPANY PROFILE

公司简介



瑞安绝缘材料成立于1986年，总部位于香港，是一家专业从事绝缘材料研发、生产及销售的国家级高新技术企业。自成立以来，公司始终秉持“优质的材料”、“卓越的服务”及“全面的配套”的发展理念，历经数四十年深耕，已成长为绝缘材料行业内的优秀企业。瑞安绝缘凭借代理国内外知名品牌的资源优势、行业领先的生产工艺及严格的质量管控体系，为国内外电机、发电机、变压器、电子产品及新能源汽车行业提供覆盖纯纸、复合材料、特种纸、云母带、套管以及绝缘漆等多元化绝缘材料产品。



优质的材料



卓越的服务



全面的配套

Sui On insulating materials, established in 1986 and headquartered in Hong Kong, is a high-tech enterprise specializing in R&D, manufacturing, and sales of advanced insulation materials. With over 40 years of industry expertise, we have established ourselves as a global leader through our commitment to the development concept of "Prominent products, Excellent services, and Integrated supporting."

Sui On insulating leverages its partnerships with leading global brands, cutting-edge manufacturing processes, and rigorous quality management systems to deliver comprehensive insulation solutions for industries worldwide. Our products spans premium materials including pure papers, laminations, specialty papers, mica tapes, insulating sleeves, and varnishes, serving applications in motors, generators, transformers, electronics, and new energy vehicles.

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产品概况

Product Overview

Arclin (原美国杜邦) Nomex® 是一种芳香族聚酰胺材料, 具有优异的电气、化学及机械性能, 广泛应用于高性能电气绝缘领域。合理使用Nomex®绝缘材料, 可有效延长电气设备使用寿命, 降低因过早老化带来的维护与维修成本。

凭借超过40年的持续技术发展与应用验证, Nomex®绝缘解决方案能够满足不同工业领域对热性能与可靠性的严苛要求, 为设备提供长期稳定的绝缘保护。

Arclin (formerly DuPont) Nomex® is an aramid-based material with outstanding electrical, chemical, and mechanical properties, making it ideal for advanced electrical insulation applications. Proper use of Nomex® insulation materials can help extend equipment service life while reducing maintenance and repair costs caused by premature aging.

Backed by more than 40 years of continuous development and proven performance, Nomex® insulation solutions deliver reliable thermal protection for a wide range of industrial applications, ensuring long-term durability and operational reliability.



基本性能

Basic performance

- 对潮湿不敏感

Insensitive to moisture
- 化学相容性

Broad chemical compatibility
- 固有的介电强度

Inherent dielectric strength
- 无毒

Non-toxic
- 低温性能

Exceptional low-temperature flexibility
- 机械韧度

Outstanding mechanical toughness
- 热稳定性

Superior thermal stability
- 耐辐射

High radiation resistance
- 耐燃

Flame Resistance

产品应用

Applications

Arclin (原美国杜邦) Nomex®适用于各种电气绝缘领域, 包括变压器、马达、发电机及电子、电气装置。

Arclin (formerly DuPont) Nomex® is suitable for various electrical insulation fields, including transformers, motors, generators and electrical devices.

产品规格

Product specifications

分类 Clasification	产品 Products
Nomex®绝缘纸 Nomex®Insulating Paper	T410、T411、T414、T710、T910
Nomex®绝缘纸板 Nomex®Insulating Board	T992、T993、T994
Nomex®云母纸 Nomex®mica paper	T818
Nomex®半导电纸 Nomex®semi-conductive paper	T843
Nomex®系列其他产品 Nomex®products	皱纹纸、压敏胶带、套管、点胶纸、针刺毛毡、B级涂胶纸、成型件、绑扎带等 Crepe paper,pressure sensitive tape,tube,sleeve,needle-punched felts,B-stage coated paper,formed parts,tie cord.

SOFLEX® Lamination Materials

瑞安SOFLEX®复合材料

产品概况

Product Overview

SOFLEX®是瑞安绝缘的复合/涂胶产品的注册品牌, 产品系列均通过UL认证。

瑞安绝缘是全球最大的Nomex®复合厂家之一,同时亦是Arclin (原美国杜邦) 的指定复合商及中国地区唯一的“品质保证”复合商。

SOFLEX®, proudly presented by Sui On Insulation, is the registered brand for its premium lamination and coating solutions. All series are UL certified.

Sui On Insulation is a global leader in advanced electrical insulation solutions and Arclin (formerly DuPont) "Quality Assurance" converter in China.

SOFLEX®复合产品, 是由多层不同的柔性绝缘材料, 如Nomex®纸, 优质无纺布, 特种绝缘纸, 聚酯薄膜, 聚酰亚胺膜等材料复合, 综合不同材料的优良性能而产生更有竞争力的产品。成品宽度最大1.85米。

SOFLEX® lamination products are made of multiple layers of different flexible insulation materials, such as Nomex® paper, high-quality non-woven fabrics, special insulation paper, polyester film, polyimide film, which combine the excellent properties of different materials to produce more competitive products. The maximum width of the laminated product is 1.85 meters.



产品应用 Applications

SOFLEX®复合产品广泛使用在电机、发电机、变压器等主绝缘上。

SOFLEX® lamination products are widely used in the main insulation of electric motors, generators and transformers.

产品规格 Product specifications

规格 Type	使用材料 Lamination form	绝缘等级 Insulate class	厚度 Thickness(mm)
NSN	Nomex® , PPS	H~C	0.15-0.28
NMN/NM	Nomex® , PET	F~C	0.07-0.9
NHN/NH	Nomex® , 亚胺薄膜	H~C	0.08-0.9
NKN	Nomex® , Kapton®	H~C	0.15-0.4
LHL	Nomex® LT,亚胺薄膜	H	0.10-0.90
DMD/DM/DMDM	无纺布 , PET	B~F	0.08-0.90
PMP/PM	三木特种绝缘纸 , PET	B~F	0.05-1.60
TK/TP	三木特种绝缘纸 , PET	B~F	0.11-0.41
PET-PET	PET	B	0.50-1.40
DDP	Nomex® , 环氧树脂	B~F	0.08-0.13
GHG	玻纤布 , 亚胺薄膜 , 浸渍环氧树脂	B~H	0.1~0.5
DHD	无纺布 , 亚胺薄膜 , 浸渍环氧树脂	B~H	0.1~0.5





产品概况

Product Overview

Mylar®产品是由美国杜邦公司最先研制并工业化的PET薄膜，Mylar®产品在很多领域，如电子、电气、磁介质、工业影像图片和包装等行业有广泛的应用。近年来，加入MELINEX®的各种产品，更加丰富了PET产品阵容，满足更多行业的需求。

Mylar® Film originally developed and industrialized by DuPont , as the world’s first polyethylene terephthalate (PET) films , is developed for numerous applications across industries such as electronics, electrical engineering, magnetic media, industrial imaging pictures, packaging and other industries.

Over recent years, the integration of MELINEX® advanced polyester films has significantly expanded the PET product portfolio, meeting the evolving demands of diverse industries.

基本性能

Basic performance

- ◉ 优质的电气性能

Excellent electrical performance
- ◉ 良好的热性能

High heat resistance
- ◉ 优良的物理性能

Superior Mechanical Strength
- ◉ 对潮湿不敏感

Insensitive to moisture
- ◉ 无毒

Non-toxic

产品应用

Applications

Mylar®及Melinex®广泛应用于变压器、马达、发电机、光学产品、光伏、母线排等产品，并且大量地用于各种复合及套管材料。

Mylar®Melinex® are widely applied to transformers, motors, generators, optics, photovoltaics, bus bars, and in large quantities in a variety of laminating and casing materials.

产品规格

Product specifications

产品 Product	规格 Type	厚度 Thickness(μm)	特征及应用 Characteristics&Applications
Mylar®	A	12~500	平衡了聚酯薄膜的各项优异性能的聚酯薄膜标准品。 Standard type with well balanced for use in wide range of application
	AHSI/KBS	23~130	各项性能良好、坚固耐用，用于多种工业及电气用途。 Good balance of properties, robustness and durability for a wide range of industrial and electrical applications
	E	12~23	最高光线穿透率、高镜面性的高透明型产品。 Highly transparent products with the highest light transmission rate and high specularity
	EL	12~125	坚韧且具有优越的电气性能、良好的热性能。 Tough with superior electrical and good thermal performance.
	MO	125~350	高电气绝缘强度、低收缩率、低吸水率和良好的耐热性能，质地柔韧，厚度均匀。 High electrical insulation strength, low shrinkage, low water absorption and good heat resistance, flexible texture, uniform thickness
	850	12~30	具有良好的热收缩性，适用于导线铜线绕包。 Good heat-shrinkage properties, suitable for copper wire wrapping
	851/851H	15	良好的热收缩性，可用于印刷、复合、食品包装、铝线铜线绕包等。 Good heat shrinkage, used for printing, lamination, food packaging, aluminum and copper wire wrapping
	HS	12~38	透明的收缩性优良(收缩率为30%)的聚酯薄膜，专门设计用于热收缩产品，如制作热缩套管。 Transparent polyester film with excellent shrinkage (30%), specially designed for heat-shrinkable products such as heat-shrinkable tubing
Melinex®	238	75~300	乳白色，低萃取性、耐氟利昂，专门用于空调和冰箱的压缩机电机 Milky white, low-extractable, Freon-resistant, specialized in compressor motors for air conditioners and refrigerators
	S	50~520	半透明略带白雾状，作为聚酯薄膜的代表性规格，平衡各项性能，广泛应用于电子、复合等工业行业等。 Translucent with slight white mist, a typical spec of polyester film, balances properties and applies widely in electronics, lamination
	339	36~125	纯白色，两面预先经过涂胶处理，应用于成像、印刷行业等。 Pure white, pre-glued on both sides for imaging and printing applications



产品概况 Product Overview

Kaladex®产品是Mylar公司(原DuPont Teijin)开发并实现工业化的双向拉伸聚萘酯薄膜。产品具有比PET薄膜更优质的性能,并良好地平衡了各项优异性能的高性能薄膜,广泛应用于高密度磁带、IC卡、FPC、电容器、电气绝缘以及电池。

Kaladex® is developed by Mylar (formerly DuPont Teijin) as the first commercial biaxially oriented poly (PEN) films. The high-performance films balance superior dimensional stability, chemical resistance, and electrical insulation, making them ideal for high-density magnetic tapes, IC card laminates, FPC substrates, capacitor dielectrics, electrical insulation, and battery separators.

基本性能 Basic performance

- ◉ 优异的机械强度及杨氏模量
Excellent mechanical strength and Young's modulus

◉ 优异的持久性能和耐水解性能
Durability & Hydrolysis Resistance
- ◉ 稳定的化学性能
Chemical Stability

◉ 优异的电气绝缘性能
Electrical Insulation Excellence
- ◉ 优异的热稳定性性能
Excellent thermal stability

产品应用 Applications

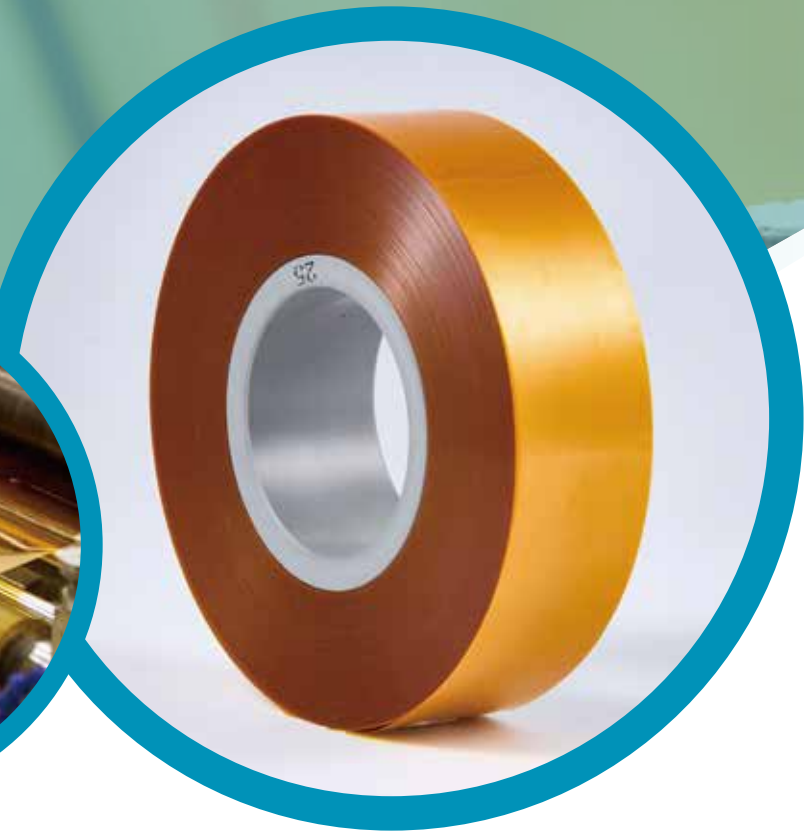
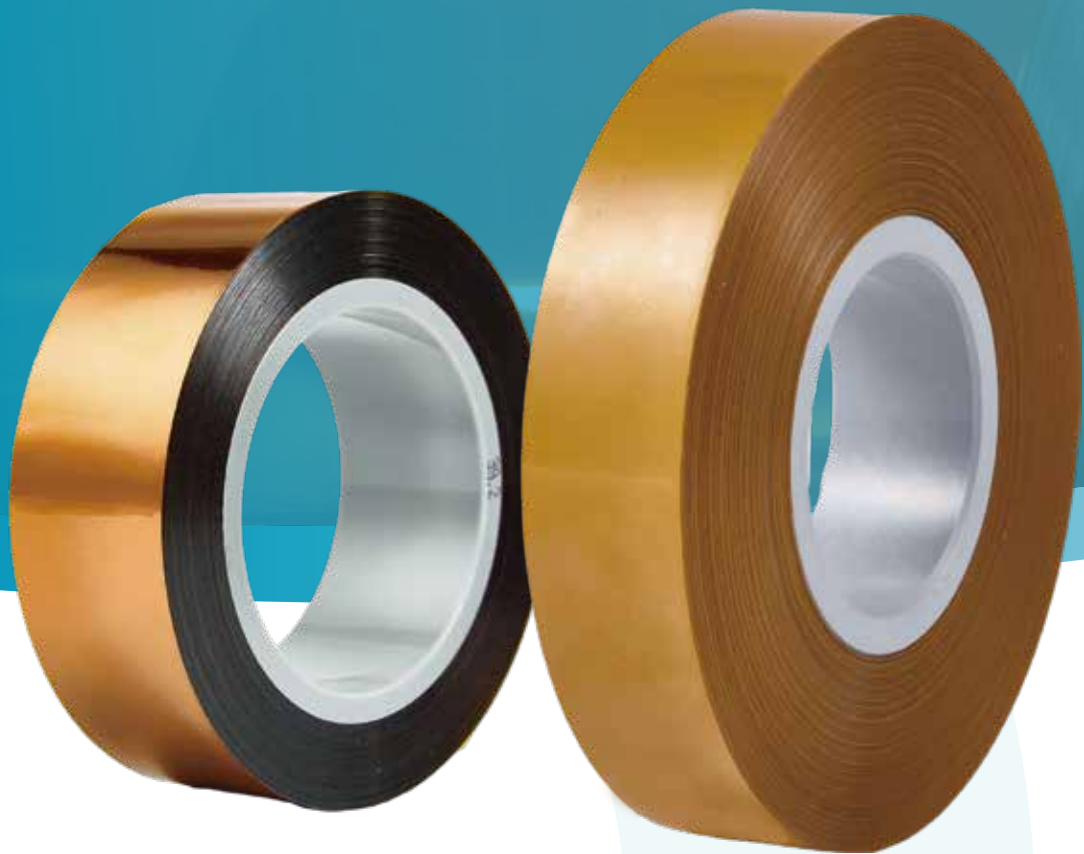
Kaladex®产品作为优异的PEN薄膜产品,凭借其优异的各项性能,广泛应用于电气绝缘、扬声器部件、磁性IC卡、FPC、RFID、标签、半导体材料、有机EL、电子纸张、太阳能电池、电容以及环保汽车等众多行业。

Kaladex®, as excellent PEN film products, are widely used in many industries including electrical insulation, speaker components, magnetic IC cards, FPC, RFID, labels, semiconductor materials, organic EL, electronic paper, solar cells, capacitors, and environmentally friendly automobiles.



产品规格 Product specifications

规格 Type	厚度 Thickness(μm)	特征及应用 Characteristics&Applications
Kaladex®2000	16~125	具有优异的热性能和力学特性的代表性标准PEN薄膜,主要用于电气绝缘、扬声器、MTS、电池烧包等行业 Representative standard PEN film with excellent thermal and mechanical properties, making it ideal for demanding applications such as electrical insulation, speakers, MTS (Magnetic Tape Storage, assuming this is the intended meaning as the abbreviation is not fully specified), and electrical oil packs.
Kaladex®2000L	16~125	经脱机加工使其热收缩特性进一步增强的薄膜。主要应用于FPC、RFID等行业 The film with further enhanced thermal shrinkage properties through offline processing, mainly applied in FPC, RFID and other industries.



产品概况 Product Overview

Kapton®聚酰亚胺薄膜是一款由启诺迪（原美国杜邦）开发的高性能薄膜类产品。杜邦是目前高性能薄膜类产品的领导者，拥有超过40年的产品供应、技术支持和客户服务经验。Kapton®聚酰亚胺薄膜专为对材料性能有严苛要求、需在特定环境下稳定运行的客户群体设计。

Kapton®聚酰亚胺薄膜具有独特的电气性能、热性能、化学性能和机械性能，在实现综合性能优化的同时完整保留单维性能优势，使其在工业领域获得广泛应用。其应用范围从传统工业应用场景，延伸至航空航天、高速机车等尖端领域，为各行业提供创新性的解决方案。

Kapton® polyimide film is a high-performance film developed by Qnity (formerly DuPont). As the global leader in advanced film technologies with over 40 years of R&D, manufacturing, and application engineering expertise, DuPont has consistently delivered innovative solutions for critical applications.

Kapton® polyimide film is designed for customers who have strict requirements on material performance and need to operate stably under specific environments. Kapton® polyimide film has unique electrical, thermal, chemical and mechanical properties. While achieving comprehensive performance optimization, it fully retains the advantages of single-dimensional performance, making it widely used in the industrial field. Its application range extends from traditional industrial application scenarios to cutting-edge fields such as aerospace and high-speed locomotives, providing innovative solutions for various industries.

基本性能 Basic performance

- 优异的绝缘性能
Electrical Insulation Excellence
- 优异的机械性能
Excellent mechanical properties
- 优异的耐热性能、耐寒性能
Thermal Stability
- 优异耐化学性能
Chemical Resistance
- 优异的抗辐射性能
Radiation Tolerance

产品规格 Product specifications

规格 Type	概述 Description	应用 Application
H/HN	具有优异的电气绝缘性能、化学性能、耐热性能，同时具有优异的耐燃性和非延烧性能 Excellent electrical field properties, chemical properties, heat-resistant properties, as well as excellent flame resistance and non-delaying properties.	绝缘材料 Insulation
FN	FN薄膜是由在NH薄膜单面或两面涂覆Telfon®FEP含氟聚合物构造而成，具有良好的热封性能、热性能、防潮性能和耐化学性能 FN films are constructed by coating Telfon® FEP fluoropolymer on one or both sides of NH film and have excellent heat sealing, thermal, moisture and chemical resistance properties.	套管、加热电路、热封袋、汽车隔膜及流形、电气绝缘等 Sleeves, heating circuits, heat-sealed bags, automotive diaphragms and manifolds, electrical insulation
CR/CRC	专门为防御电气设备局部放电导致电离作用和击穿绝缘系统而设计的高性能薄膜。 High-performance films specifically designed to defend electrical equipment against partial discharges that lead to ionization and breakdown of the insulating system.	旋转机械电气设备、发电机、牵引电机、变压器 Electrical equipment of rotating machinery, generators, traction motors, transformers
FCR	耐电晕高性能薄膜。可作为导线绝缘，有效减小导线热缩和局部放电的可能性，该材料应用于马达、发电机等产品时，可获得比传统绝缘材料更优异的绝缘效果。 Corona-resistant high-performance film. It can be used as wire insulation, effectively reducing the possibility of heat shrinkage and partial discharge of wires. When applied to motors, generators, and other products, this material can obtain a better insulation effect than conventional insulating materials.	大型工业电机、机车用电机、发电机 Large industrial motors, motors for locomotives, generators
MT+ EWS	优异的耐高温性能，耐电晕性能和高导热，主要应用于新能源汽车电机、电磁线等领域 High temperature resistance, corona resistance, and high thermal conductivity. Used in new energy vehicle motors, electromagnetic wires	主要应用于新能源汽车电机、电磁线等领域 Mainly used in new energy automobile motors, electromagnetic wire and other areas

AXALTA Voltatex®

艾仕得Voltatex®浸渍漆



产品概况 Product Overview

艾仕得Voltatex®产品系列主要以浸渍漆，漆包线漆和硅钢片漆为主。艾仕得公司在开发诸如漆包线漆、浸渍漆和硅钢片漆等新型绝缘材料方面一直是全球的领军企业。与杜邦其他的固体绝缘产品如薄膜(Kapton®,Mylar®)，绝缘纸(Nomex®)和塑料Crastin®, Rynite®)一起, 向我们的客户提供了其所需的全系列电气绝缘解决方案。

浸渍树脂和清漆是现代电动机，发电机及变压器中的关键部分。他们把叠片铁芯和绕组转变成同质化且机械性质稳定的单元。其优点是能针对多种环境因素提供优良的防护，同时为绕组、槽绝缘和铁芯之间提供更好的传热性能。

注:2013年杜邦高性能涂料更名为艾仕得涂料系统。

Axalta Voltatex® product line is mainly based on impregnation varnishes, wire enamels and silicon steel sheet varnishes. Axalta has been a global leader in developing new insulation materials such as wire enamels, impregnation varnishes and silicon steel sheet varnishes. Together with DuPont's other solid insulation products such as films (Kapton®, Mylar®), insulation papers (Nomex®) and plastics Crastin®, Rynite®), we provide our customers with a full range of electrical insulation solutions they need.

Impregnation resins and varnishes are key parts of modern motors, generators and transformers. They transform laminated cores and windings into homogeneous and mechanically stable units. The advantage is that they can provide excellent protection against a variety of environmental factors, while providing better heat transfer performance between windings, slot insulation and cores.

Note: In 2013, DuPont High Performance Coatings was renamed Axalta Coating Systems.

基本性能 Basic performance

- 无VOC的低排放
Zero VOC Emissions
- 无着火或爆炸危险
Non-flammable & Non-explosive
- 远低于最大暴露极限(MEL)
Exposure Levels Well Below MEL
- 优异耐腐蚀性
Chemical Resistance
- 不属于危险类别
Non-hazardous Classification
- 优异的热机械稳定性
Thermal Stability
- 环境友好型
Eco-friendly

产品规格 Product specifications

产品 Product		型号 Type	应用 Application
表面防护漆 Surface protection varnish		2010/2020/2030	快干型带填料表面防护漆，具有卓越的对金属与塑料的粘结性，适宜作为外部环境(特别是潮湿)的进一步防护 Quick drying, filler-based surface protection varnish with excellent adhesion to metals and plastics, suitable for further protection against the external environment (especially moisture).
聚氨酯灌封树脂 Polyurethane casting resin		3200	适用于灌注成型的变压器和电子元件，室温即可固化，固化过程放热低。 Suitable for potting transformers and electronic components. Be cured at room temperature with low heat release during the curing process.
浸渍漆 Varnish	苯乙烯树脂 Styrene based resin	4000/4030/ 4012/4510	挂漆量高，凝胶温度低，高粘接强度。适用于电动马达，高速转子电机及大功率电机，变压器等 High paint holding capacity, low gel temperature, high bonding strength. Suitable for electric motors, high speed rotor motors and high power motors, transformers,
	低挥发树脂 Low volatility resin	4200/4201/4204/ 4250/4424L	优异的阻燃性能，不含卤素。适用于电动马达，及高速旋转电机和大功率电机。 Excellent flame retardant properties, halogen free, suitable for electric motors, high speed rotary motors and high power motors.
	水性漆 Water based resin	2250/2251	环境友好型漆，无气味。适用于电机的转子和定子，可直接使用，用去离子水即可调节粘度。 Environmentally friendly, odorless resin. Suitable for rotor and stator of motor, can be used directly, and the viscosity can be adjusted with deionized water.

HOKUETSU TOYO Vulcanized Fiber

北越东洋硫化纤维纸板



产品概况 Product Overview

北越东洋硫化纤维纸板采用天然材料，以棉浆和精制木浆为基材制成原纸。将原纸浸入氯化锌溶液，层压原纸为任意所需厚度之后，用水洗方法充分去除残留氯化锌溶液，并经干燥工艺制成硫化纤维纸板。

Hokuetsu Toyo Vulcanized Fiberboard is made from natural materials, using cotton pulp and refined wood pulp as the base material for the base paper. After immersing the base paper in a zinc chloride solution and laminating the base paper to any desired thickness, the residual zinc chloride solution is fully removed by washing and the fiberboard is vulcanized by a drying process.

基本性能 Basic performance

- 良好的机械性能
Mechanical Excellence
- 生物可降解性能、防静电性能
Biodegradability, Antistatic Performance
- 不热融、不结露、吸收/释放湿气性能
Non-Melting Performance, Dew Point Resistance, Absorption, Desorption
- 轻量化、耐油、耐化学特性
Lightweight, oil/chemical resistance
- 耐冲击、耐磨损、耐压缩，韧性好
Impact Resistance, Wear Resistance, Compression Strength, Toughness

产品规格 Product specifications

类型 Type	规格 Series	颜色 Color	厚度 Thickness(mm)	特点 Characteristic
普通快巴 Commercial Fibre	HB-77	N、R、B、SW	0.25~2.6	优良的加工性能 电气绝缘性能 防静电性能 高韧性 Mechanical Electrical Anti-static High tracking rate
	FP	DB	0.1~0.8	以棉浆为主要制造原料，具有优异的耐热性能、加工性能、主要作为电气绝缘材料使用。 Made from cotton pulps Heat endurance Mechanical Electrical
	SF-03			用于需要特别柔软、弯曲性能优良的各种产品。 Used for a variety of products that require special softness and excellent bending properties.
防水、耐热快巴 Waterproof&heat resistant fiber	K-57,RK-76	N、R、B、SW	0.50~2.6 ; 0.25~2.0	优良的耐热性能，优异的防水性能，尺寸稳定，耐湿性能，优异的抗老化特性，优异的耐电弧性能，耐冲击性能。 Excellent heat resistance, water resistance, dimensional stability, humidity resistance, anti-aging properties, excellent arc resistance, impact resistance
	RGFK-57	N	1.0~2.0	将棉浆和玻璃纤维复合并加入特殊的树脂制成，尺寸稳定且具有优异的耐热性能。 Made by compounding cotton pulp and glass fiber and adding a special resin; Dimensionally stable and excellent heat resistance.
防火快巴 Flame Retardant Fibre	NF-77			防火型产品，UL认定产品。优异的加工性能 优异的电气绝缘性能 Flame retardant with UL certification Mechanical Electrical insulation
	RNF-77	N、R、B、SW	0.25~1.6	将NF-77经过高级防火氨基甲酸酯处理，提高了产品防水性能、电气绝缘性能、以及改善了由于吸湿造成的绝缘低下的产品 Made from NF-77 soaked in advanced resin, which making it water resistant and good electrical insulation with little moisture absorption rate.
	NF-2000			不含卤素的防火型产品 Halogen-free products
	NF-95FP RNF-97FP	N、R、B、SW	0.18~0.5	防火型FP产品，涂覆防火氨基甲酸酯处理 Flame retardant FP coated with flame retardant resin
	NFK-88 RNFK-88	CH	0.5~1.0	防火、防水、UL认定型快巴。将NFK-88经过高级防火氨基甲酸酯处理，提高了产品防水性能 Flame retardant & water resistant with UL Made from NFK-88 with advanced resin of flame retardant, which making it water resistant.
层压快巴 Laminated Fibre	VF-67,VFG	N、R、B、SW	3.0~50.0	由树脂含浸快巴层压制成。可经过机械加工适用于电气绝缘、体育用品等多个行业 Made of resin impregnated fiber laminate. Can be machined and used in many industries including electrical insulation, sporting goods.
研磨用快巴 Abrasive Fibre	GRB		0.5~1.2	研磨用基材，适用于苛刻条件 Basic material for Milling, suitable for all kind of harsh conditions.

TORAY Torelina® PPS

东丽PPS聚苯硫醚薄膜

产品概况 Product Overview

日本东丽株式会社成立于1926年，是拥有百年历史的日本企业，专注于化学纤维和高性能材料的研究、开发和生产。在全球范围内，东丽公司都是享有盛誉的品牌，其产品广泛应用于汽车、航空航天、电子、医疗等领域。生产的碳纤维材料市场份额全球第一。也是全球首家生产(PPS)聚苯硫醚纤维的生产企业。东丽公司的PPS薄膜不仅可用作单层材料，还可作为复合材料，用于制造复合绝缘纸，如NSN等。

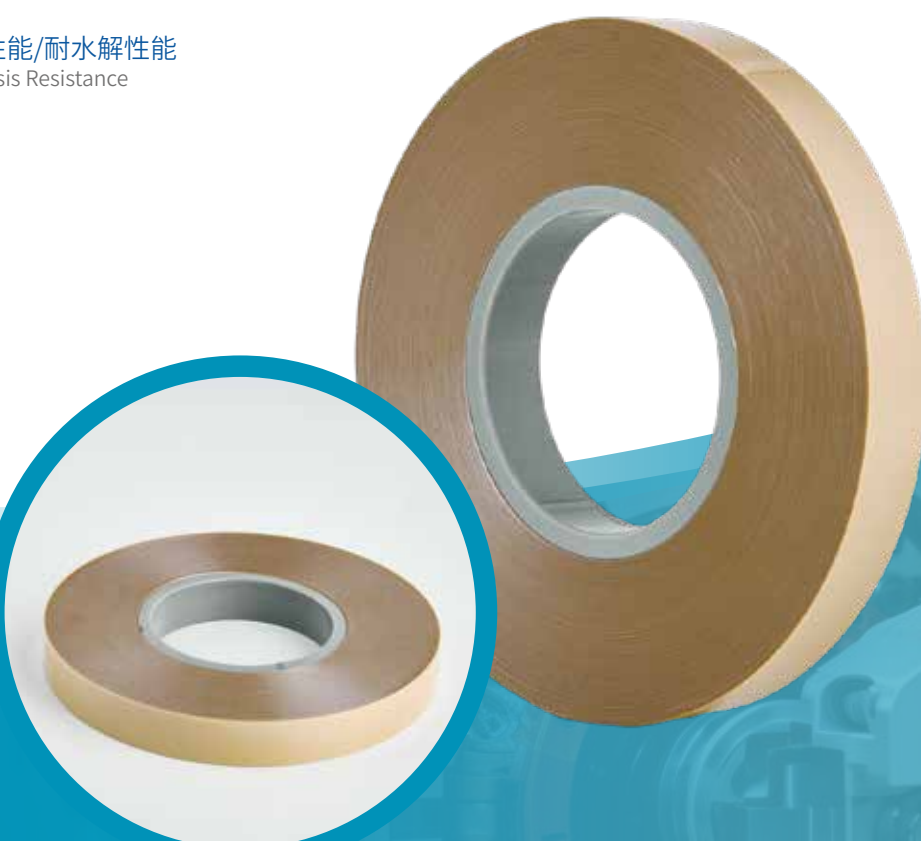
Established in 1926, Toray Corporation is a century old Japanese enterprise dedicated to the research, development, and production of chemical fibers and high-performance materials. Toray Corporation is a renowned brand globally with its products widely used in fields such as automotive, aerospace, electronics, and healthcare. The market share of carbon fiber materials produced ranks first in the world. It is also the world's first manufacturer of PPS polyphenylene sulfide fibers. Toray's PPS film can not only be used as a single layer material, but also as a lamination material for laminating insulation paper, such as NSN.

基本性能 Basic performance

- ◉ 耐热(UL746B 160-200°C)
Thermal Stability(UL746B 160-200°C)
- ◉ 电气性能(低损耗)
Electrical Performance (Low dielectric loss)
- ◉ 出色的耐化学性能/耐水解性能
Chemical/Hydrolysis Resistance
- ◉ 阻燃(VTM-0)
Flame Retardancy

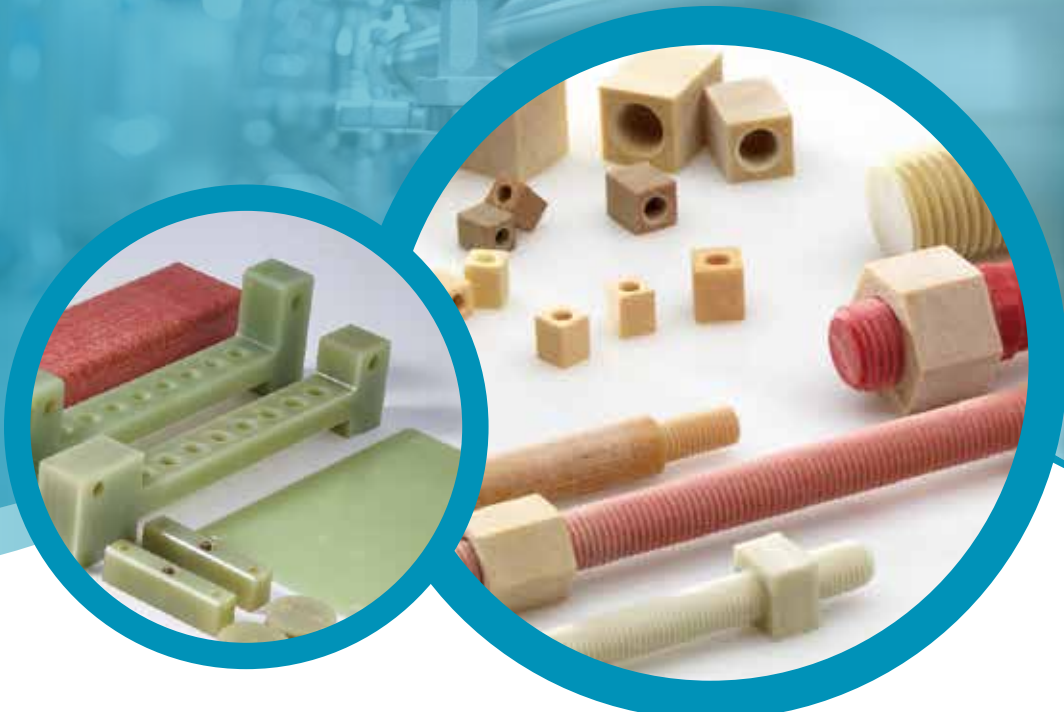
产品应用 Applications

电机、变压器、离型膜、电容器、垫片、胶带
Motors, transformers, release films, capacitors, gaskets, adhesive tapes



RÖCHLING Engineering Plastics

劳士领工程塑料



产品概况 Product Overview

劳士领工程塑料是劳士领集团的一员，其玻璃纤维增强塑料及结构件产品以Durostone®Glastic®为品牌，有多种等级产品及其加工件可以满足不同的应用,例如脱硫装置,发电及配电设备,化工设备和高温绝缘。

As a subsidiary of the Röchling Group, Röchling Engineering Plastics specializes in glass fiber reinforced composites and structural components under the Durostone® and Glastic® brands. The company offers comprehensive products and custom engineered solutions tailored to meet diverse industrial requirements, including flue gas desulfurization systems,power generation and distribution equipment,chemical processing machinery,high-temperature electrical insulation applications.

产品规格 Product specifications

型号 Type	颜色 Color	厚度 Thickness(mm)	特性 Characteristics
UPM203	红色, 白色 Red, White	0.8~3;4~80;3~40	GPO-3标准 GPO-3 standard
EPM203	黄色 Yellow	4~140;4-80	H级材料 H-grade material
EPC203	绿色 Green	1.85	高温G-11 high-temperature G-11
SG200	棕色 Brown	0.8~51;0.6~25	非常坚硬, UL耐温达210°C extremely hard, UL-resistant up to 210°C
FHT	象牙色 Ivory	0.8~1.6	高柔韧性 UL耐温达190-200°C highly flexible UL-resistant up to 190-200°C

SYNDYN Lamination

欣岱酚醛层压纸板



产品概况 Product Overview

台湾欣岱实业股份有限公司采用历史最悠久、用途最广的高分子树脂粘合剂--酚醛树脂，作为粘合树脂，将纸、棉或者细棉织布等浸渍于酚醛树脂中，然后热压制成电木板。

Taiwan Syndyn Industrial Co., Ltd. uses phenolic resin, the oldest and most widely used polymer resin adhesive, as the adhesive resin to impregnate paper, paper, cotton or fine cotton fabric into phenolic resin, and then hot press it into bakelite.

基本性能 Basic performance

- 优异的电气绝缘性能
Excellent electrical insulation performance
 - 优异的机械性能
Mechanical Properties
 - 优异的加工性能
Processing Efficiency
- 优异的热性能
Thermal Performance
 - 尺寸稳定
Dimensional Stability
 - 优异的耐化学性能
Chemical Resistance

产品规格 Product specifications

类型 Type	型号 Series	NEMA	颜色 Color	厚度 Thickness(mm)	应用 Application
纸质电木板 Paper-Based Bakelite Boards	SD-100H	XP	橙Orange、黑Black	0.5~2.5	电气绝缘性能、耐化学性能、机械性能、热性能以及加工性能良好，UL认定产品。适用于电气、机械及相关零部件行业。 Featuring UL-listed electrical insulation, chemical resistance, mechanical strength, thermal stability, and machinability, these boards are engineered for electrical, mechanical, and component manufacturing applications.
	SD-200H	XXP	橙Orange	0.5~2.5	
	SD-102C	XPC	本色Natural、黑Black	0.8~3.0	
	SD-168C	XPC	本色Natural、黑Black	0.3~2.5	
布质电木板 Fabric-based Bakelite Boards	SDL-4055	LE	棕Brown	0.3~30.0	电气绝缘性能、机械性能、耐热性能、耐化学性能，加工性能良好，厚度<2.5mm适合热冲压加工。 Excellent electrical insulation performance, mechanical properties, heat resistance, chemical resistance, and processing performance. With a thickness of less than 2.5mm, suitable for hot stamping, punching and drawing processes.

RELATS® Sleeves

瑞纳智套管



产品概况 Product Overview

瑞纳智是西班牙专业生产玻纤套管的厂家。其产品在高温绝缘、耐热、隔音方面处于市场领先地位，广泛用于汽车、铁路、高压电机、发电机、变压器等行业。

A leading Spanish manufacturer of fiberglass sleeving solutions, RELATS specializes in high performance thermal and electrical insulation products for demanding industrial environments and are widely used in automotive, railroad, high-voltage motors, generators, transformers and other industries.

产品规格 Product specifications

类型 Series	规格 Type	概述 Description	应用 Application
Revitex	Durasleeve	可扩张型聚酯纤维套管 标准颜色:黑色 Expandable polyester fiber Sleeve. Standard color: Black.	电气管道或其他设备的机械和热的保护 Mechanical and thermal protection for electrical conduits or other equipment
Polycryl	CONFORM A VSX75	可扩张型玻璃纤维补强硅橡胶套管标准颜色:黑、白、棕红或客户要求颜色 Expandable fiberglass reinforced silicone rubber sleeve. Standard colors: black, white, brownish red, or colors as required by customers.	良好的热、电气绝缘材料, 适用于高温仪器等 Superior thermal and electrical insulation material, suitable for high-temperature instruments
Revitex	GUF VPG40	涂覆聚酯清漆的玻璃纤维编织套管 Fiberglass braided sleeve coated with polyester varnish	保持电气设备弯曲部位的电气绝缘性能 Maintain the electrical insulation performance of the bent parts of electrical equipment
Revitex	VAC40	玻璃纤维补强套管 标准颜色:蓝色或客户要求颜色 Fiberglass reinforced sleeve. Standard color: blue, or colors as requested by customers	马达、变压器、照明、家用器具 Motors, transformers, lighting, household appliances
Revitex	VSC	玻璃纤维补强硅橡胶套管 标准颜色:黑、棕红或客户要求颜色 Fiberglass reinforced silicone rubber sleeve. Standard colors: black, brownish red, or colors as required by customers.	对热性能、绝缘性能、耐化学性能较高的高温电器 High-temperature electrical appliances with high requirements for thermal performance, insulation performance and chemical resistance

PEEK Film

PEEK薄膜

产品概况 Product Overview

PEEK(聚醚醚酮)是一种高性能热塑性塑料, 具有独特的机械、热和化学特性。它具有优异的抗蠕变性、拉伸强度和多功能绝缘能力, 在要求苛刻的应用中表现出色。

PEEK (Polyetheretherketone) is a high-performance thermoplastic with unique mechanical, thermal and chemical properties. It has excellent creep resistance, tensile strength and versatile insulation capabilities, and performs well in demanding applications.

基本性能 Basic performance

- ◉ 高温下良好的电气性能
Good electrical properties at high temperatures
- ◉ 耐高温等级高达 240°C
High temperature resistant up to 240°C
- ◉ 导热性
Thermal conductivity
- ◉ 刚度、抗撕裂/刺穿强度
Stiffness, tear/puncture strength
- ◉ 极强的耐化学和耐腐蚀性
Extreme chemical and corrosion resistance
- ◉ 薄膜厚度0.05mm至0.2mm
Film thickness 0.05mm to 0.2mm
- ◉ UL 94 V-0阻燃等级
UL 94 V-0 flame retardant rating

产品规格 Product specifications

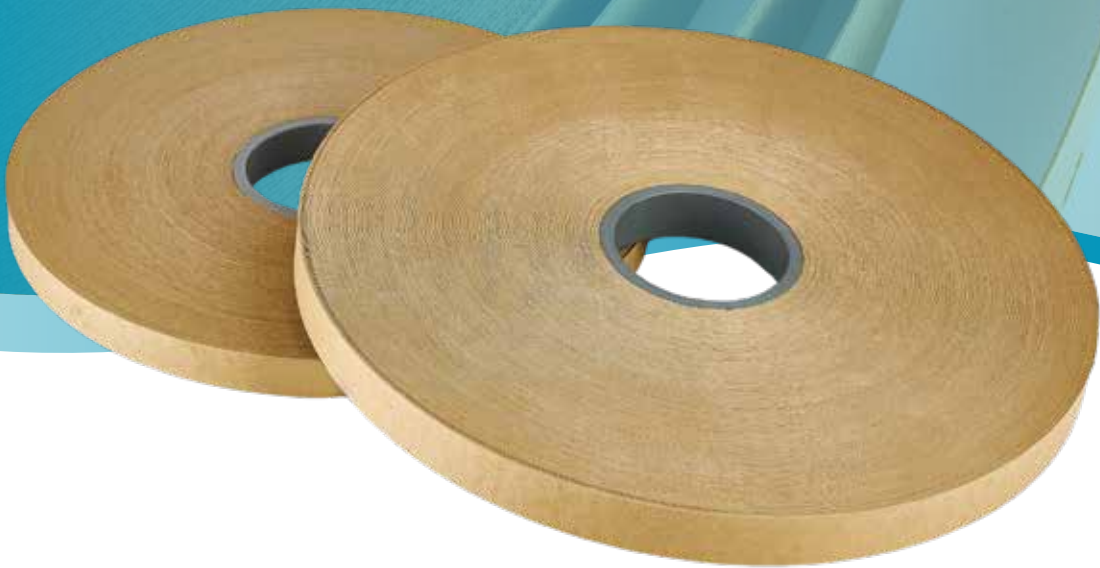
PEEK塑料是航空航天、汽车、生物医学、电气等领域最常用的热塑性材料之一。适用于制造轴承、绝缘电缆、安全齿轮、泵、重型机器零件、阀门、压缩机和半导体等。

PEEK plastic is one of the most commonly used thermoplastic materials in aerospace, automotive, biomedical, electrical and other fields. It is suitable for manufacturing bearings, insulated cables, safety gears, pumps, heavy machine parts, valves, compressors, semiconductors.



TOMOEGAWA Insulation Paper

日本巴川纸



产品概况 Product Overview

日本巴川公司作为日本第一家绝缘材料制造商, 自成立以来始终引领高品质电气绝缘纸的研发与供应, 其产品广泛应用于高压电缆、电力和配电变压器等领域。

As Japan's pioneering manufacturer of electrical insulation materials, TOMOEGAWA has continuously led the R&D and production of premium grade insulation paper since its establishment, widely adopted in high-voltage power cables, power generation transformers, distribution transformer systems, industrial electrical equipment.

基本性能 Basic performance

- ◉ 优异的绝缘性能
Excellent insulation performance
- ◉ 优异的表面光滑度
Good surface smoothness

产品规格 Product specifications

型号 Type	厚度 Thickness(mm)	特征及应用 Characteristics&Applications
TCS-80N	0.08	原木色(黄色)用于导线绕包 Natural Wood Tone (Yellow), used for wrapping wires
TZA	0.04-0.25	原木色(黄色)和绿色, 广泛用于电磁线绕包中 Natural Wood Tone (Yellow) and Green, Designed for electromagnetic wire winding
Thermal ZA	0.05-0.375	原木色(黄色)和绿色, 广泛用于电磁线绕包中 Natural Wood Tone (Yellow) and Green, Designed for electromagnetic wire winding

COGEBI Mica

柯吉比云母带



产品概况 Product Overview

柯吉比公司是世界上优秀的云母绝缘产品制造商之一。柯吉比云母带在电气设备中作为主绝缘、引线绝缘、端部绝缘等使用，具有优异的电气绝缘性能、机械性能以及超薄的厚度等特性。瑞安绝缘是柯吉比在中国的战略合作伙伴，Kalastik 45.830 系列产品在瑞安绝缘青岛公司复合生产。

COGEBI is one of the world's leading manufacturers of mica insulation products. Its mica products are used as main insulation, lead insulation, end insulation in electrical equipment, and have excellent electrical insulation performance, mechanical properties, and ultra-thin thickness. Sui On Insulation is a strategic partner of COGEBI in China. Kalastik 45.830 series products are laminated and produced by the Qingdao branch of Sui On Insulation.

产品规格 Product specifications

系列 Series	厚度 Thickness(mm)	合成物 Composite	树脂类型 Resin type	应用 Application
Kalastik	0.06-0.10	PETP、PEfilm、Kapton film	环氧树脂 Epoxy	导线绝缘 Conductor insulation
608/609	0.13-0.20	Glass、PE Fleece、PEN	环氧树脂 Epoxy	主绝缘、端部绝缘 Main insulation, end corona
Eltaseal	0.10	polyester foil	聚氨酯 Polyurethane	突出物保护 Protrusion protection
Remikasil	0.08-0.16	Glass cloth	硅树脂 Silicone	主绝缘、端部绝缘 Main insulation, end corona
Remikapor	0.12	Aramide、Glass	环氧、硅树脂 Epoxy、Silicone	主绝缘、端部绝缘 Main insulation, end corona

Other Products

其它产品

绝缘套管 Insulation sleeves

利用Nomex®、Mylar®、Kapton® 和绝缘纸，依据它们各自独特的特性和收缩率，采用特殊制造工艺，将这些材料绕制成空管，可用于温控器、马达、变压器等产品中。

Utilizing Nomex®, Mylar®, Kapton®, and insulating paper, and taking advantage of their individual distinctive properties and shrinkage rates, a specialized manufacturing technique is adopted to wind these materials into hollow tubes, applied to products like thermostats, motors, and transformers.

毛毡 Felt

利用Nomex®、聚酯等纤维，以针轧技术制造成低密度的非织布材料，具有良好的耐温特性及优异的吸漆能力，适用于电机层间垫料和槽隙填料机端部绝缘。

Low density non-woven fabrics made from Nomex®, polyester and other fibers using needle pressing technology have high heat resistance and excellent paint absorption capabilities, and are ideal for motor interlayer gaskets and slot fillers for machine end insulation.



绑扎带 Cable Tie

使用各种纤维编织成的绑扎带，用于电机的导线和引出线的绑扎整理。

Binding straps crafted from a diverse array of fibers are used to neatly bundle and organize the conductive wires and lead out wires within motors.

皱纹纸 Crepe Paper

利用Nomex®或三木纸作为基材，经热压起皱，大大提高延伸率，用于电机或变压器的高要求包扎部位。

Using Nomex® or Miki paper as the base material, through a heat pressing and wrinkling process, the elongation rate is greatly increased, making it suitable for the high demand binding parts of motors or transformers.

压敏胶带 Pressure sensitive tape

使用Nomex®, Kapton®, Teonex®, Mylar®等材料作为基材的压敏胶带，广泛用于电绝缘、医疗、标签等。

Pressure sensitive adhesive tapes using Nomex®, Kapton®, Teonex®, and Mylar® as the base material are widely used for electrical insulation, medical treatment, and labeling.

Processing

加工服务



复合&涂胶 Lamination & Coating

- ◉ 复合厚度范围: 0.06mm-1.4mm
- ◉ Lamination Thickness Range: 0.06mm-1.4mm
- ◉ 最大加工宽度: 1.8 m
- ◉ Maximum Processing Width: 1.8 m



分切加工 SLITTING

- ◉ 最小分切宽度: 2.3mm
- ◉ Minimum slitting width: 2.3mm
- ◉ 分切厚度: 0.012~3mm
- ◉ Slitting thickness: 0.012~3mm
- ◉ 分切精度: $\pm 0.05\text{mm}$
- ◉ Slitting Precision: $\pm 0.05\text{mm}$

成型加工 FORMING

- ◉ 焊接 Welding
- ◉ 数控加工 CNC



冲压加工 STAMPING

- ◉ 冷冲压 Cold Stamping
- ◉ 成型 Forming
- ◉ 热冲压 Hot Stamping
- ◉ 成槽 Groove Forming