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塑料制品
汽车配件

PLASTIC PRODUCTS
AUTO PARTS

广东·佛山
佛山市铭德塑料有限公司

COMPANY INTRODUCTION

公司简介

佛山市铭德塑料有限公司位于中国先进制造业基地佛山市顺德区，是一家集科研、生产、销售为一体的综合型塑料制造企业。公司坚持以优秀的人才为主导，先进的技术为依托，现代化管理为手段，严格掌控每道工艺环节，保证产品品质；经过十余年的不断发展，现已成为中国最大的塑料板材、厚片吸塑企业之一。

经营范围：专业生产 ABS 板，PS 板，PP 板，PE 板，PC 板，PVC 板，PET 板，PETG 板，双色板等塑料板材、塑料片材和塑料卷材，亚克力制品，大型真空吸塑，板材深加工。

塑料板材：本公司引进先进挤出设备；挤出板材最大宽度达 2000MM，厚度在 0.1-150MM 范围内。产品表面有哑光、高光和消光级，或可按客户要求生产压花粗纹、细纹、磨砂、钻石纹、荔枝纹等多种纹路供客户选择。以及两层共挤双色板、表面覆膜工艺的双色板及 PC/ABS、PVC/ABS、PMMA/ABS 复合板材等各色塑料板材。

厚片吸塑：本公司专注致力于大型厚板吸塑的研发、生产工艺的改良创新和大型厚板材料的吸塑加工。拥有多台真空吸塑机，最大成型范围 2500x2000x900mm(长 x 宽 x 高)，壁厚范围：0.8-12mm。吸塑所用塑料板材均为自给自足，大大降低了原材料采购成本。

合作领域：公司产品广泛应用于汽车、家电、广告、卫浴、玩具、箱包、机械、电子电器、医疗设备、建筑模型、真空吸塑等行业。

企业理念：坚持不断创新，优化产品质量，完善服务体系，追求精益求精，打造全球品质，以一流产品和优良服务与海内外新老客户真诚合作。

Located in China's advanced manufacturing base- Shunde, Foshan city, Foshan Mingde Plastic Company is an integrated plastic manufacturer which combines scientific research, manufacturing and marketing. The company adheres to the principle of talent-oriented, relies on advanced technology, applies modern management method and executes strict control of every process to ensure product quality; after more than ten years of continuous development, Mingde has already become one of China's largest plastic sheet and thick sheet vacuum formed enterprise.

Business scope: We are specialized in plastic sheets, rolled material, acrylic products, large vacuum formed products and plastic sheet deep processing. The plastic sheet includes ABS sheet, PS sheet, PP sheet, PE sheet, PC sheet, PVC sheet, PET sheet, PETG sheet, double color sheet, composite sheet and so forth.

Plastic sheet workshop: The company has introduced advanced extrusion machines . The maximum width of the sheet can be reached 2000MM, and the thickness is in the range of 0.1-15.0MM. It has matte, high light and extinction levels, and can be made in textured, frosted, diamond textured, lichee pattern according to customer requirements. In addition,we also produce two layers co-extruded double color sheets, the double color sheet with surface coating process, PC/ABS、PVC/ABS、PMMA/ABS composite sheet and other items.

Thick sheet vacuum forming: Our company is devoted to the research and development of large thick sheet vacuum formed products, innovation and improvement of production technics and the vacuum forming process of the thick sheet. We have many vacuum formed machines, the maximum forming specification can be 2500 x 2000 x900mm(LxwxH), wall thickness range: 0.8 ~ 12mm. All plastic sheets used for vacuum formed products are self-sufficient, which greatly reduce the cost of procurement of raw materials.

Cooperation field: Our products are widely used in automobiles, household appliances, advertising, sanitary ware, toys, luggage, machinery, electronic appliances, medical equipment, building model, vacuum blister, etc.

Company philosophy: We always insist on continuous innovation, optimize product quality, improve the service system, seek increasing perfection, create global quality, cooperate sincerely with old and new customers at home and abroad with our first-class product and excellent service.

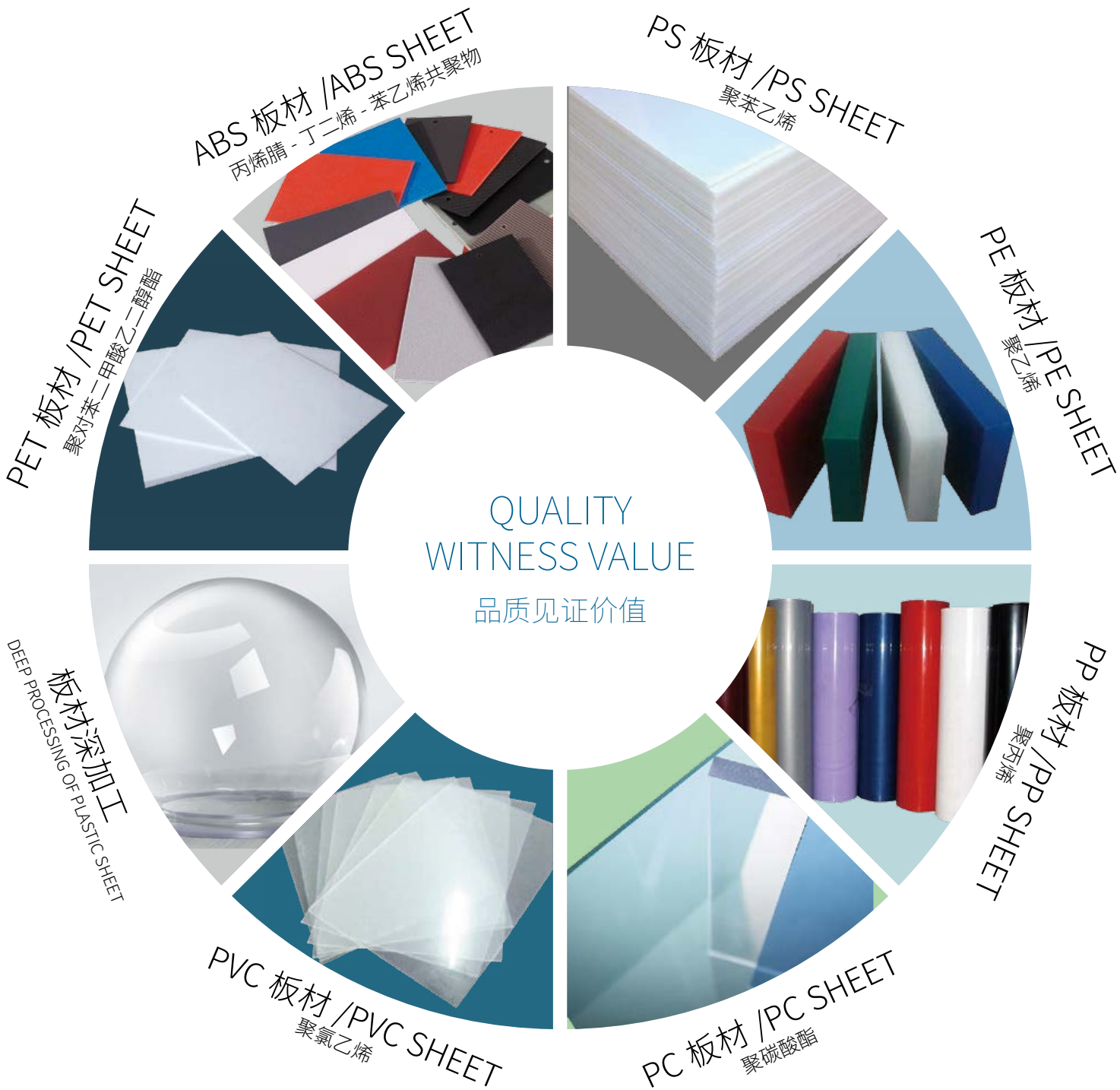
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荣誉·源于执着
HONOR·FROM PERSEVERANCE

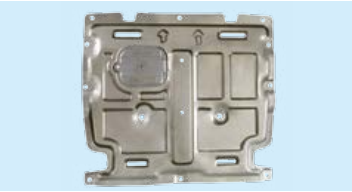
在 2000 多家中国塑料板材企业之中，铭德脱颖而出。成为信誉卓著的优秀品牌，获得了无数荣誉与掌声，这与企业坚韧、执着、诚信的精神信念密不可分。



汽车行李箱 Roof box/Cargo box



汽车后备箱垫 Trunk mat



汽车发动机保护板
Car engine protection plate



汽车轮眉 Car wheel eyebrow

ABS 板材 ABS SHEET

丙烯腈 - 丁二烯 - 苯乙烯共聚物

ABS(丙烯腈 - 丁二烯 - 苯乙烯共聚物) 是一种高刚性，抗冲击，高强度，高表面硬度的工程塑料，具有难燃，表面光泽度佳，低吸水性，耐热耐低温性、耐化学药品性、电气性能优良等特点，还可以加热入模，冷却制成各种吸塑产品。ABS 板材广泛应用于外壳、行李箱、冰箱衬垫、家电、机械、汽车、电子电器、仪器仪表、建筑等领域。

ABS (acrylonitrile-butadiene-styrene copolymer) is an engineering plastic with high rigidity, impact resistance, high strength, high surface hardness, flame retardant, good surface gloss, low water absorption, heat resistance and low temperature resistance It has the characteristics of flexibility, chemical resistance, and excellent electrical performance. It can also be heated into the mold and cooled to make various blister products. ABS sheets are widely used in the fields of shells, luggage cases, refrigerator liners, household appliances, machinery, automobiles, electronic appliances, instrumentation, construction and so on.



ABS 板材分类	ABs Sheet Catagories:
ABS 高光板	ABS High Gloss Sheet
ABS 哑光板	ABS Matt Sheet
ABS 皮纹板	ABS Skin Textured Sheet
ABS 阻燃板	ABS Flame Retardant Sheet
ABS 双色板	ABS Double Color Sheet
ABS/PC 合金板	ABS/PC AlloySheet
ABS/PC 复合板	ABS/PC Composite Sheet
ABS/PVC 复合板	ABS/PVC Composite Sheet
ABS/PMMA 复合板	ABS/PMMA Composite Sheet
ABS/ASA 复合板	ABS/ASA Composite Sheet



ABS 仿木纹塑料板
ABS imitation wood grain plastic board

MINGDE PLASTIC



PS 板材 PS SHEET

聚苯乙烯

PS(聚苯乙烯系塑料) 是指大分子链中包括苯乙烯基的一类塑料 , 它分为 GPPS(通用级聚苯乙烯) 和 HIPS(抗冲击级聚苯乙烯) 两种类型。与其他塑料相比 ,PS 成本低 , 透明度高 (透光率 88%-92%), 易于染色 , 高刚性 , 尺寸稳定 , 多应用于文具、玩具、电气用品外壳、餐具等领域。因其突出的透光性及较好的光泽度 ,GPPS 常用于广告 , 灯饰等产品中。在 PS 中加入少量其他物质如丁二烯即可降低脆性 , 提高冲击韧性 , 就形成了 HIPS, 可用于吸塑行业 , 制作出许多性能优良的机械零件和构件来。

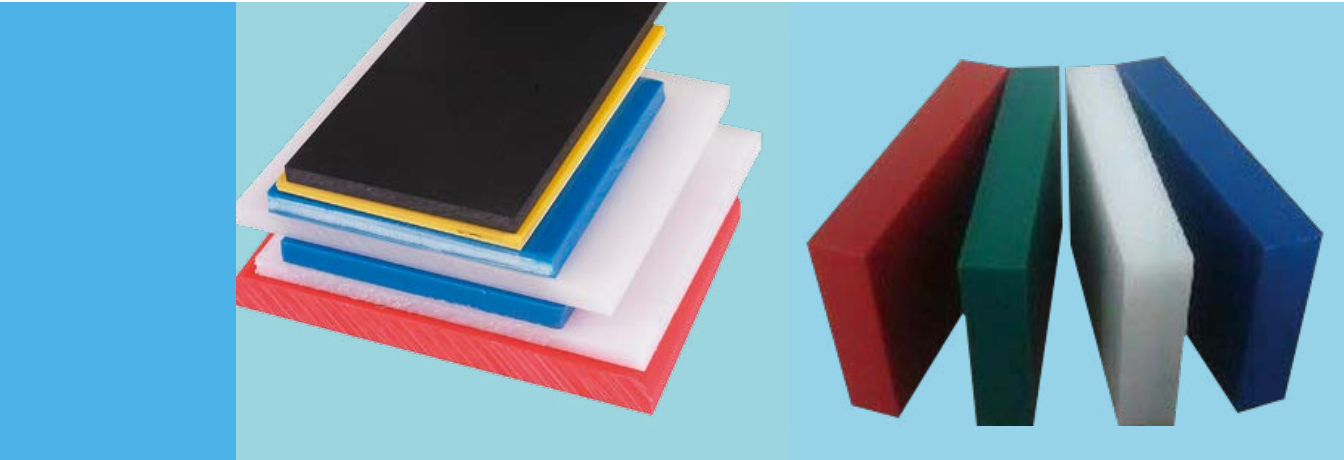
PS is one kind of plastic that its macromolecular chain comprises a styrene base, which can be divided into GPPS(General purpose polystyrene)and HIPS(High Impact Polystyrene). Compared with other plastics, PS is characterized by having a good transparency(transmittance of 88%-92 %) low cost, glossy surface easy to dye, good rigidity, stable dimension. It is often applied to stationery, toys electrical appliances shell, tableware, etc GPPS is often used to make the products of advertising, lighting owing to its superior light transmission and glossy surface. And if add a little bit butadiene in PS to reduce its brittleness and improve its impact strength, then normal PS can turn into HIPS. HIPS can be used in the industry of vacuum forming to make mechanical parts and components with excellent properties.

PE 板材 PE SHEET

聚乙烯

PE(聚乙烯) 是一种无味无毒 , 轻型柔软的热塑性塑料 , 手感似蜡 , 具有优良的耐低温性能化学稳定性好 , 可以抵抗大部分酸碱有机溶液以及热水的侵蚀 , 常温下不溶于一般溶剂 , 吸水性小 , 电绝缘性能优良 ; 密度低 ; 韧性好 (同样适用于低温条件); 电气绝缘性好易焊接。广泛用于化工 , 机械 , 电力 , 服装 , 包装 , 食品等行业。

PE (polyethylene) is a kind of odorless, non-toxic, light and soft thermoplastic. It feels like wax, has excellent low temperature resistance, and has good chemical stability. It can resist most acid and alkali organic solutions and hot water. It is insoluble at room temperature. For general solvents, low water absorption, excellent electrical insulation performance; low density; good toughness (also suitable for low temperature conditions); good electrical insulation and easy to weld. It is widely used in chemical, machinery, electric power, clothing, packaging, food and other industries.



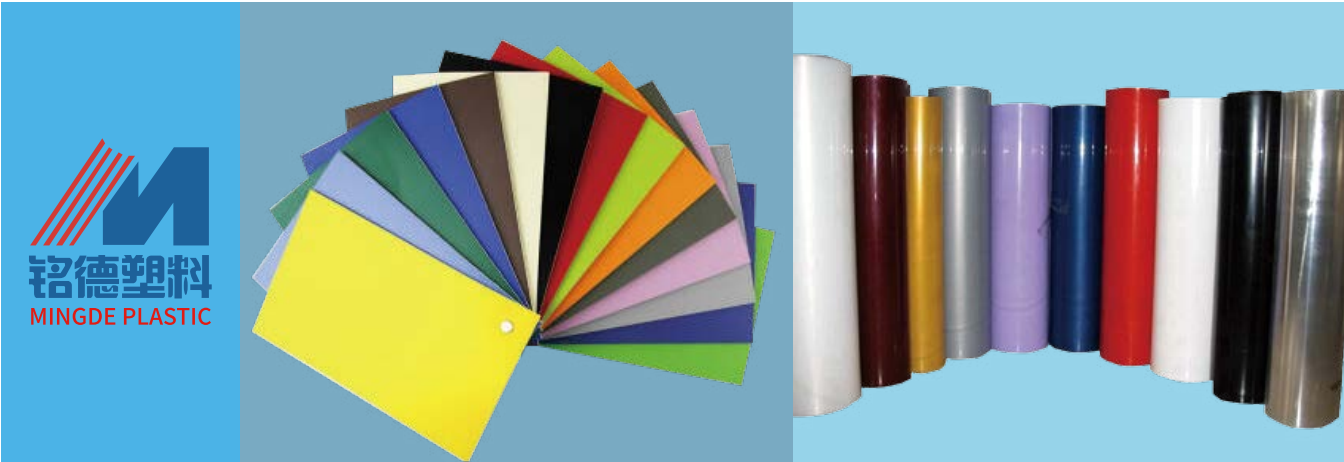
项目 Item	名称 Name	PP 板材 PP Sheet
规格 Specification	等级 Grade	等级 A/B Grade A or Grade B
	颜色 Color	白, 黑, 红, 黄, 绿, 灰, 桔, 自然色或定制 White,blackred,yellow,green,gray,orange, natural or customized
	密度 Density	0.96g/cm3
	厚度 Thickness	0.2mm-100mm
	库存尺寸 Stock Size	800*1600mm,1000*2000mm,1220*2440mm
	其他尺寸 Other Size	可定制 can be customized
	表面效果 Surface finish	光面 / 花纹 Smooth or pattern
	样品 Sample	免费供样, 客户承担快递费用 Free of charge, customer pay the freight
属性参数 Attribute parameter	生产类型 Production type	挤压, 铸造 Extrude or casting
	工作温度 Working temp	-40℃ --260℃
	热成型温度 Thermoform temp	90℃
	热变形温度 Heat distortion temp	130℃
	阻燃等级 Flammability class	41-46

PP 板材 /PP SHEET

聚丙烯

PP(聚丙烯) 是最轻的热塑性材料，易于焊接和机械加工。它具有优异的耐化学性，耐高温性，抗冲击，密度低，韧性好，加热时收缩率低，无毒无害，是典型的符合环保要求的工程塑料。PP 板广泛应用于化工容器、机械、电子、电器、食品包装、医药、装潢和污水处理等领域。

PP (polypropylene) is the lightest thermoplastic material and is easy to weld and machine. It has excellent chemical resistance, high temperature resistance, impact resistance, low density, good toughness, low shrinkage during heating, non-toxic and harmless, and is a typical engineering plastic that meets environmental protection requirements. PP board is widely used in chemical containers, machinery, electronics, electrical appliances, food packaging, medicine, decoration and water treatment and other fields.



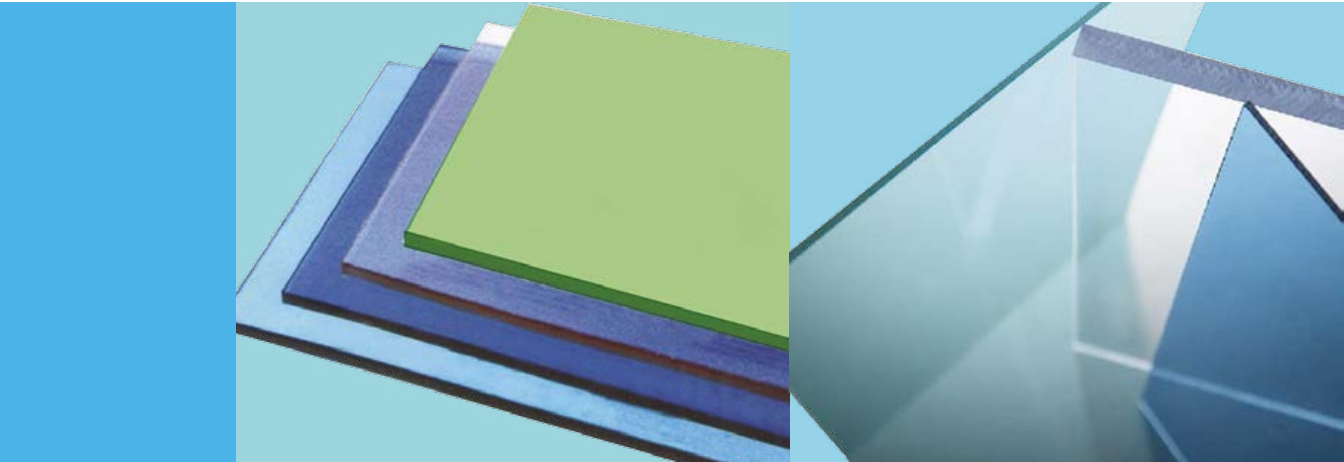
项目 Item	名称 Name	PP 板材 PP Sheet
规格 Specification	等级 Grade	等级 A/B Grade A or Grade B
	颜色 Color	白, 黑, 红, 黄, 绿, 灰, 桔, 自然色或定制 White,blackred,yellow,green,gray,orange, natural or customized
	密度 Density	0.93g/cm3
	厚度 Thickness	0.2mm-100mm
	库存尺寸 Stock Size	1000*2000mm,1220*2440mm
	其他尺寸 Other Size	可定制 can be customized
	表面效果 Surface finish	光面 / 花纹 Smooth or pattern
	样品 Sample	免费供样，客户承担快递费用 Free of charge, customer pay the freight
属性参数 Attribute parameter	生产类型 Production type	挤压，铸造 Extrude or casting
	热成型温度 Thermoform temp	907J/m
	热变形温度 Heat distortion temp	135℃
	阻燃等级 Flammability class	HB

PC 板材 /PC SHEET

聚碳酸酯

PC 板材具有良好的透明性、重量轻、耐冲击、隔音、隔热、阻燃、抗老化等特点。

PC sheet has good transparency, light weight, impact resistance, sound insulation, heat insulation, flame retardant, anti aging etc.



项目名称 Item name	单位 UNIT	指标值 INDEX VALUE	测试方法 (ASTM)
比重 Specific gravity	g/cm	1.2	D-792
冲击强度 (Izod, 缺口) Impact strength (Izod, notch)	J/M	907	D-256
拉伸屈服强度 Tensile yield strength	Mpa	69	D-638
拉伸断裂强度 Tensile breaking strength		71	
屈服伸长率 Yield elongatio	%	6.5	
断裂伸长率 Elongation at break		120	
压缩强度 Compression strength	Mpa	86	D-695
弹性模量 The modulus of elasticity is 2400 D-638		2400	D-638
热膨胀系数 The modulus of elasticity is 2400 D-638	M/m	6.7×10 [^] (-6)	D-696
导热系数 Binding coefficient	W/m·K	0.2	C-177
热变形温度（负荷 1.81MPa） Thermal deformation temperature (load 1.81MPa)		135	D-648

PVC 板材 /PVC SHEET

聚氯乙烯

PVC 是一种高度耐腐蚀的材料，具有较一般塑料高的密度，低成本和易于制作加工易切断，焊接，折弯，可粘接，最适用于化学工业之防蚀性设备。具有高强度，高刚度和高硬度，良好的电器绝缘性，化学稳定性好，低吸水性，易油漆等特点。此外，加不同比例之可塑剂，可轻易调整软硬度。

PVC is a highly corrosion-resistant material, with higher density than general plastics, low cost, easy to manufacture and process, easy to cut, weld, bend, and bond. It is most suitable for corrosion protection equipment in the chemical industry. It has the characteristics of high strength, high rigidity and high hardness, good electrical insulation, good chemical stability, low water absorption and easy paint. In addition, adding different proportions of plasticizers can easily adjust the softness and hardness.

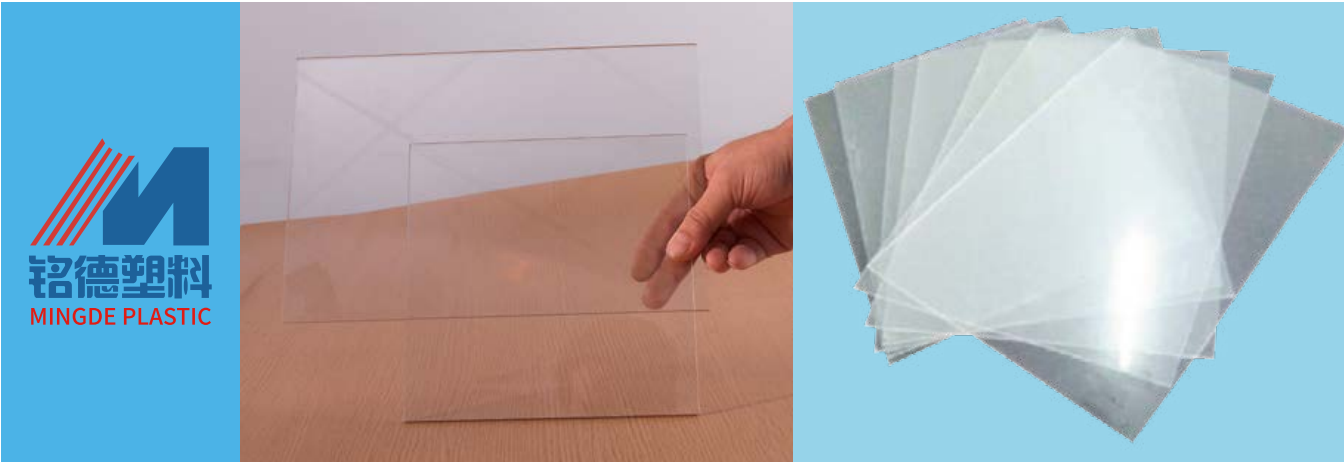


PET 板材 /PET SHEET

聚对苯二甲酸乙二醇酯

PET 的透明度比 PVC 要好，更适合做对透明度要求高的产品，是一种环保的热塑性塑料。尺寸安定性佳、机械性能优异、潜变性小、电气特性佳、耐候性优、气性耐水性好、具自熄性，广泛应用于食品包装、电子电器、断路器、整流器、线轴、线轴灯罩、汽车、电装组件、挡泥板、煞车器把手、工业零件。

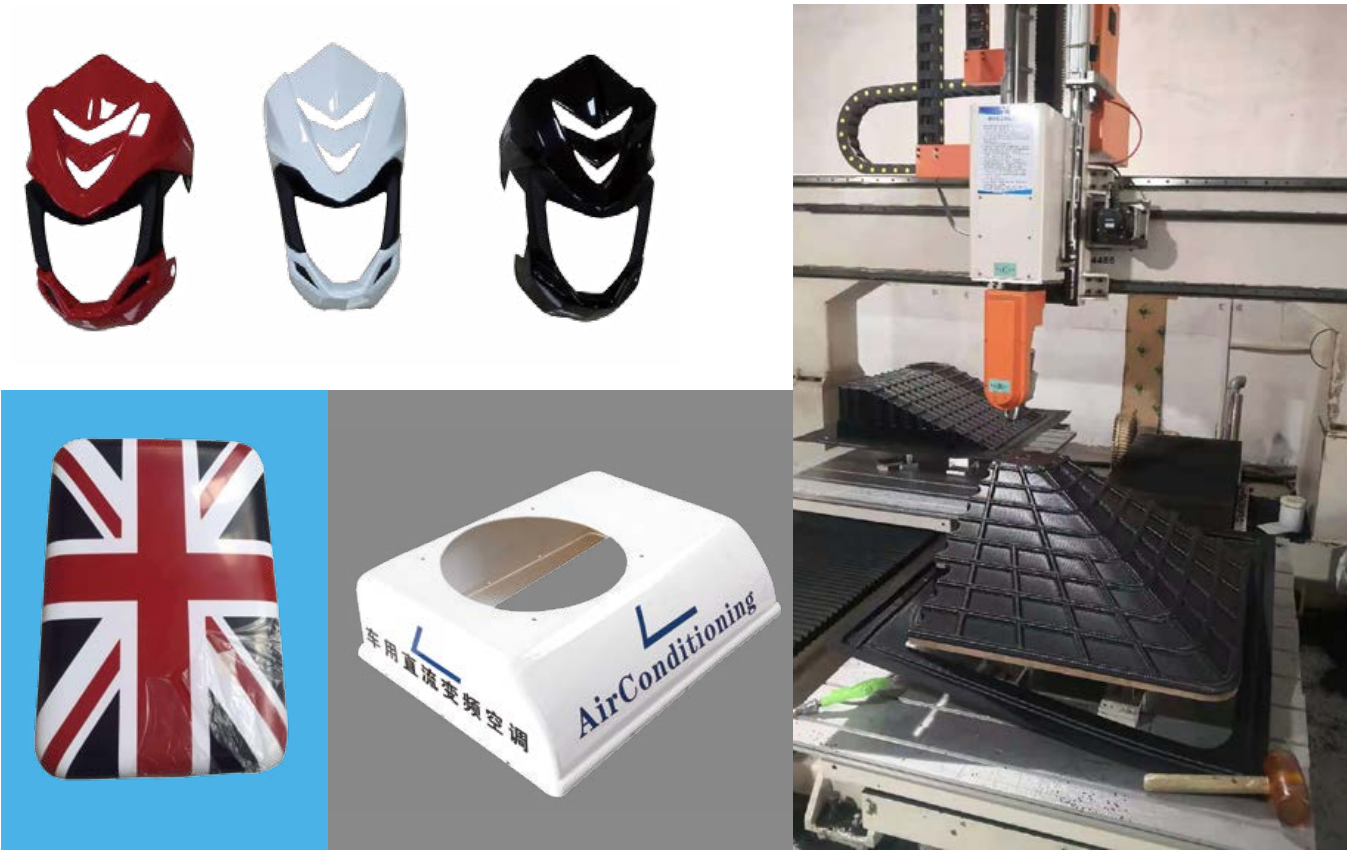
PET has better transparency than PVC, and is more suitable for products with high transparency requirements. It is an environmentally friendly thermoplastic. Good dimensional stability, excellent mechanical properties, low creep, good electrical properties, excellent weather resistance, good gas and water resistance, self-extinguishing, widely used in food packaging, electronic appliances, circuit breakers, rectifiers, spools, spool lampshades , Automobiles, electrical components, mudguards, brake handles, industrial parts.



项目 Item	名称 Name	PVC 板材 PVC Sheet
规格 Specification	颜色 Color	白，黑，红，黄，绿，灰，桔，自然色或定制 White,blackred,yellow,green,gray,orange, natural or customized
	密度 Density	1.4g/cm3
	厚度 Thickness	0.1mm-60mm
	库存尺寸 Stock Size	1000*2000mm,1220*2440mm
	其他尺寸 Other Size	可定制 can be customized
	表面效果 Surface finish	光面 / 花纹 Smooth or pattern
	样品 Sample	免费供样，客户承担快递费用 Free of charge, customer pay the freight
属性参数 Attribute parameter	生产类型 Production type	挤压，铸造 Extrude or casting
	熔点 Melting type	136°C
	透光性 Light transmission	Above 73%
	阻燃等级 Flammability class	UL-94:V-0

项目 Item	名称 Name	PET 板材 PET Sheet
规格 Specification	颜色 Color	白，黑，红，黄，绿，灰，桔，自然色或定制 White,blackred,yellow,green,gray,orange, natural or customized
	密度 Density	1.4g/cm3
	厚度 Thickness	0.1mm-10mm
	库存尺寸 Stock Size	1000*2000mm,1220*2440mm
	其他尺寸 Other Size	可定制 can be customized
	表面效果 Surface finish	光面 / 花纹 Smooth or pattern
	样品 Sample	免费供样，客户承担快递费用 Free of charge, customer pay the freight
属性参数 Attribute parameter	生产类型 Production type	挤压，铸造 Extrude or casting
	吸水率 Water absorption	6%(24hrs in 23°C water)
	拉伸强度 Tensile strenght	62-75MP
	阻燃等级 Flammability class	HB

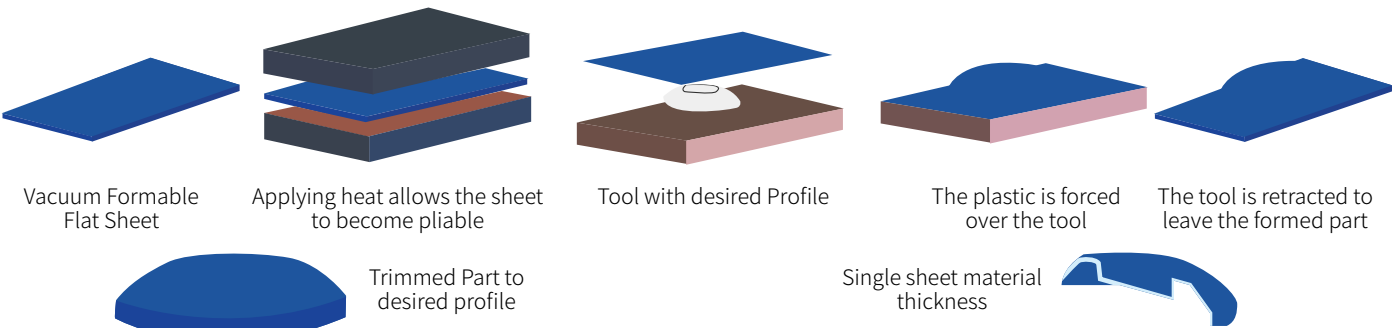
MINGDE PLASTIC



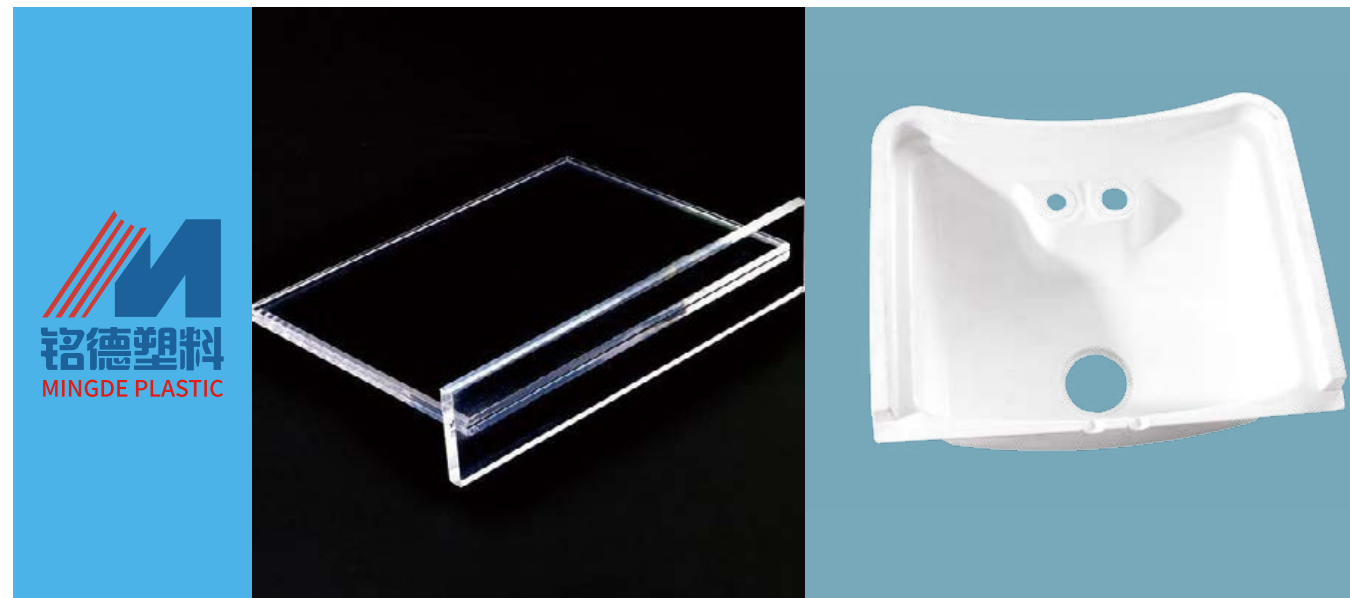
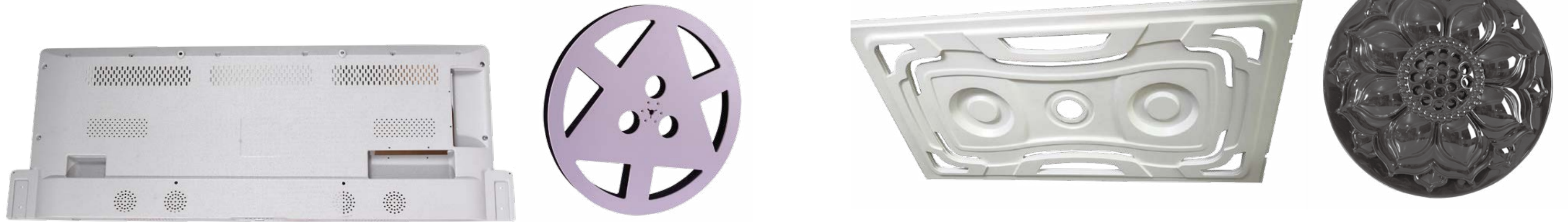
真空吸塑产品 VACUUM BLISTER PRODUCTS

本公司专注致力于大型厚板吸塑的研发、生产工艺的改良创新和大型厚板材料的吸塑加工。拥有多台真空吸塑机，最大成型范围 2500*2000*900mm(长*宽*高)，壁厚范围 :0.8~12mm。吸塑所用塑料板材均为自给自足，大大降低了原材料采购成本。

The company focuses on the research and development of large thick plate blister, the improvement and innovation of production technology and the blister processing of large thick plate materials. It has multiple vacuum blister machines, the maximum molding range is 2500*2000*900mm (length*width*height), and the wall thickness range: 0.8~12mm. The plastic sheets used in the blister are all self-sufficient, which greatly reduces the cost of raw material procurement.



MINGDE PLASTIC



板材深加工

DEEP PROCESSING OF PLASTIC SHEET

拥有原材料的优势，我们会对板材进行深加工，生产一些板材冲压件，折弯件，印刷品等。以定制为主，可来图来样加工。我们有经验丰富的技术人员，可以随时提供技术支持。

With the advantage of raw materials, we will deep-process the plates and produce some plate stamping parts, bending parts, printed materials, etc. It is mainly customized, and can be processed with drawings and samples. We have experienced technical personnel who can provide technical support at any time.



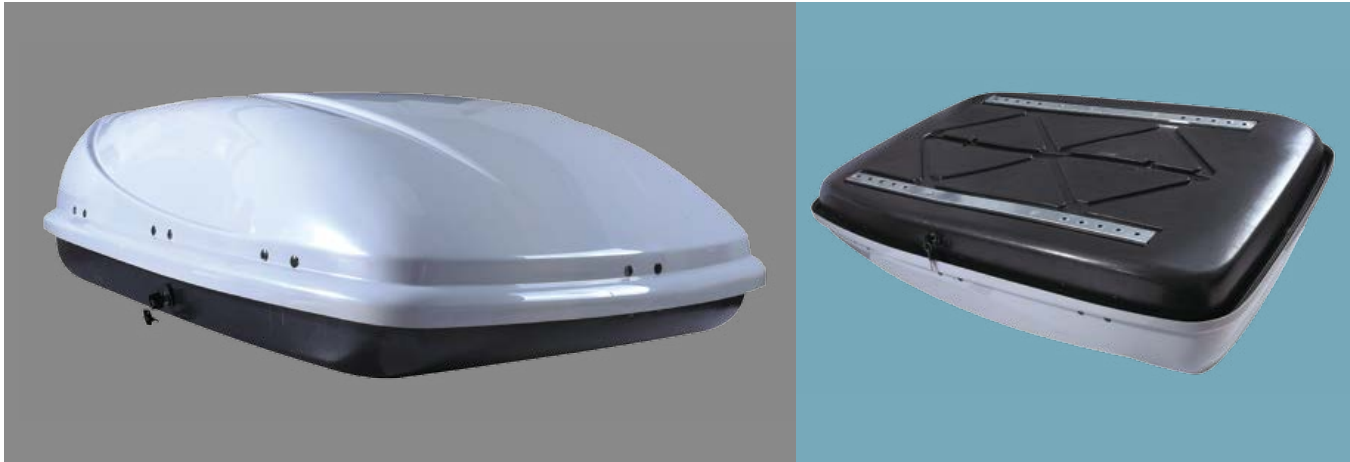
汽车行李箱

ROOF-BOX /CARGO BOX

材质：ABS+ASA ABS+PC

为扩展收纳空间，车顶箱常被安装在汽车车顶，用于携带更多自驾装备、行李等。

In order to expand the storage space, the roof box is often installed on the roof of the car to carry more self-driving equipment, luggage and so on.



汽车行李箱尺寸 /Roof box size		
尺寸		重量 KG
450L	L139*W90*H38CM	18
480L	L156*W83*H39CM	20
550L	L175*W83*H28CM	22
600L	L175*W83*H36CM	22
700L	L206*W80*H34cm	26
U 型螺栓固定 /U bolt fixation		
开启方式 Opening way: 单开 Single-door/ 双开 Double door		



汽车后备箱垫

TRUNK MAT

汽车后备箱就是车子的杂物间储藏室，汽车后备箱垫可以有效的保护汽车后备箱，防止脏物或者液体进入后备箱侵蚀后备箱表面，还可以防止后备箱内物品滑动。

Car trunk is the car's utility room storage room, car trunk pad can effectively protect the car trunk, prevent stolen goods or liquid into the trunk corrodes the surface of the trunk, but also prevent the items in the trunk sliding.



汽车发动机保护板

CAR ENGINE PROTECTION PLATE

发动机保护板是根据各种不同车型定身设计的引擎防护装置，其设计首先是防止泥土包裹发动机，导致发动机散热不良，其次是为了行驶过程中防止由于凹凸不平的路面对发动机造成撞击而造成发动机的损坏，通过一系列设计达到延长发动机使用寿命，避免出行过程中由于外在因素导致发动机损坏的汽车抛锚。选用 PE 材质 ,TPO 材质，3D 铝镁合金，锰钢等材质。

Engine protection plate is designed according to various different models of engine protection device, its design is first to prevent the soil package engine, resulting in poor engine heat dissipation, then to prevent the uneven road facing the engine impact engine damage, through a series of designs to achieve extended engine service life, avoid travel due to external factors in the engine damage of the car anchor. PE material,TPO material, 3D aluminum magnesium alloy, manganese steel and other materials.



汽车轮眉

CAR WHEEL EYEBROW

汽车轮眉主要出于装饰作用及驾驶者的个性化需求而装备。同时，汽车轮眉可以在行驶时防止翼子板划伤和擦伤，还具备一定的防泥水、防碰撞作用。此外，出于空气动力学考虑，轮眉具有减少空气阻力的作用。使用时，将汽车轮眉安装在汽车轮胎上方的翼子板上。

Car wheel eyebrow are mainly equipped for decorative purposes and the individual needs of the driver. the car wheel eyebrow can prevent scratches and scrapes on the wing plate when driving. It has the effect of preventing muddy water and collision. According to the aerodynamics principle, the wheel eyebrow can reduce air resistance. The car wheel eyebrow is mounted on the wing panel above the automobile tire.



企业优势

BUSINESS ADVANTAGE



一家集研发、生产、销售为一体的专业塑料板材，塑料板材吸塑、塑料板深加工的高新技术企业。

A high-tech enterprise integrating R&D, production and sales of professional plastic sheet, plastic sheet blister and deep processing of plastic sheet.



公司核心团队拥有 20 多年的行业经验，产品研发能力强，生产制造经验丰富。

The company's core team has more than 20 years of Hu industry experience, strong product research and development capabilities, and rich experience in Hu manufacturing.



公司产品均使用品牌原装生产，包括台湾奇美、LG 化学、中国石化、中海油等，原材料品质高，产品质量保证。

The company's products are all produced with original brands, including Taiwan's Chi Mei, LG Chem, Sinopec, CNOOC, etc. The raw materials are of high quality and the product quality is guaranteed.