鼎元工程塑料
DINGYUAN ENGINEERING PLASTICS

DINGYUAN
ENGINEERING PLASTICS

汤阴县鼎元工程塑料有限公司
TANGYIN DINGYUAN ENGINEERING PLASTICS CO., LTD

中国·河南
HENANOFCHINA

公司简介
COMPANY PROFILE

汤阴县鼎元工程塑料有限公司是一家专业生产超高分子量聚乙烯（UHMWPE）塑料产品，是集应用研究，开发生产，销售服务于一体的高新技术企业。公司位于河南省汤阴县宜沟工业集聚区，临107国道，京珠高速，京广铁路，交通十分便利。

我司主要超高分子量聚乙烯产品有：超高分子量聚乙烯板材，超高分子量聚乙烯护舷贴面板，超高分子量聚乙烯托辊，超高分子量聚乙烯加工件：人造溜冰场，起重机垫，耐磨履带板，衬板，导轨，耐磨条，脱水元件及各种尺寸的超高分子量聚乙烯滑块，齿轮，刮刀等。另外，我司拥有大型生产设备，最大超高分子量聚乙烯产品可达10000mm×2200mm×200mm。

我司可按客户要求定制不同规格和颜色的超高分子量聚乙烯产品，并不断向国内外客户推出”节能、环保、经济、高效”的产品，赢得客户的广泛认可和好评。

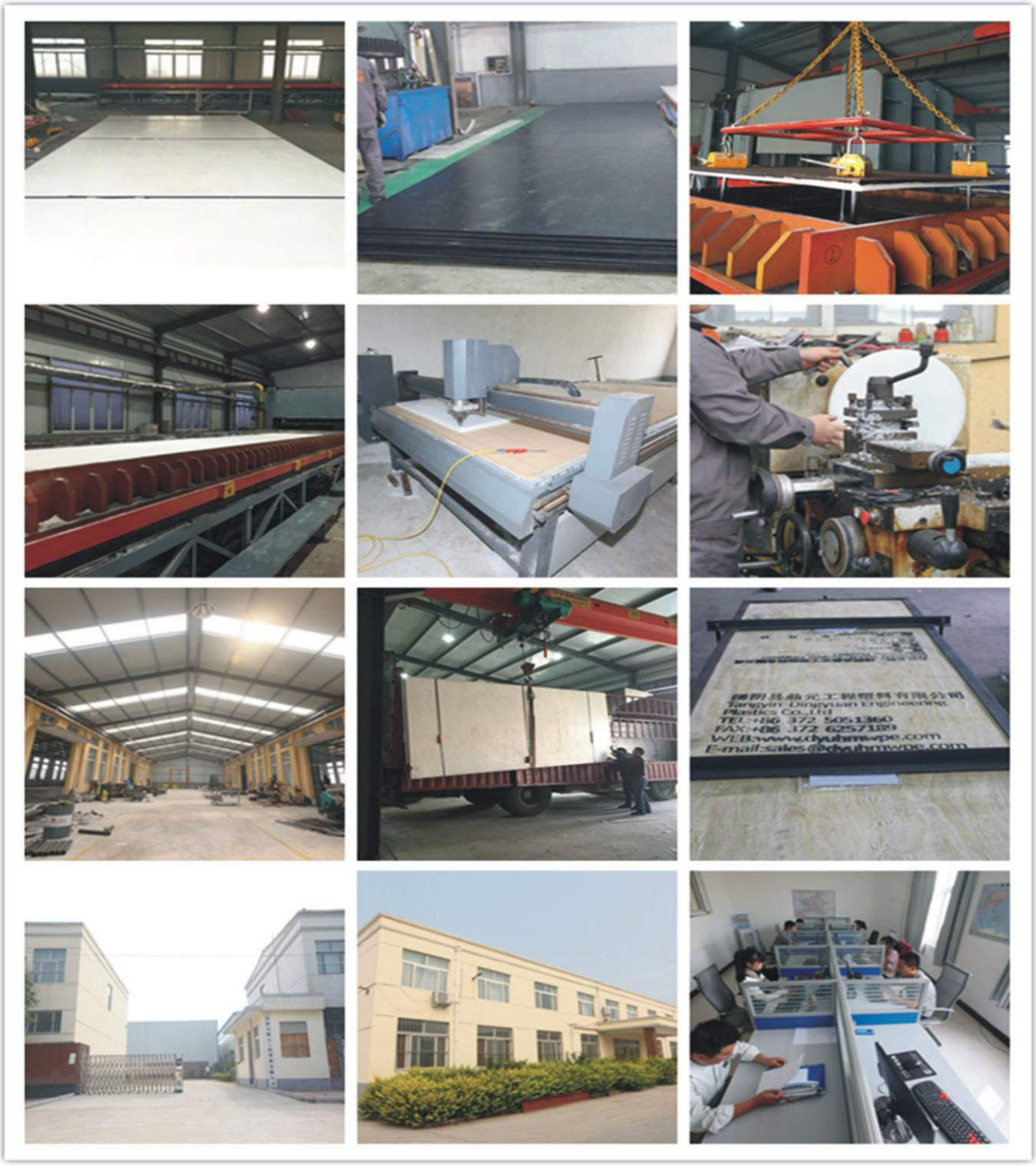
完美的产品质量，严格的质量控制体系，完善的销售服务，是我司与广大客户的合作基础，欢迎广大客户，各界人士光临指导，真诚合作。

Tangyin Dingyuan Engineering Plastics Co., Ltd is a high-tech enterprise engaged in the UHMW Plastic Products (ultra-high molecular weight polyethylene 2million-12million) R&D, production and sales service integration which located in Anyang city, Henan province, China.

The mainly products includes UHMWPE sheet, UHMWPE marine fender, UHMWPE rollers ,UHMWPE machined parts: UHMWPE synthetic ice rink, UHMWPE outrigger pad, UHMWPE track pad, UHMWPE liner, UHMWPE guide rails, UHMWPE strip, various UHMWPE gear, block, blade, etc.

Our products are customer-oriented, different size and color will be meeting your special requirements.Oversized UHMWPE products also could be supply ,such as 10000mm×2200mm×400mm。

As a professional UHMWPE manufacturer, we commitment across the business is to developing close and sustainable relationships with customer partnersthrough High Quality Products, Strict Quality Control System, Excellence Service.



原料：分子量300万，400万，500万，600万，700万，800万，900万不等，也可按客户要求生产

颜色：多色均可加工。　规格：按客户要求加工定制。　包装：编织袋，防水托盘，可按要求定制包装。

公司服务：我们可以根据客户来图来样加工，我们有专业的生产团队，我们会努力做到最强最好。期待您的来电咨询。

The advantage of us:

1. Raw material: 100% virgin UHMWPE material
2. Automatic Temperature and Pressure Control System which will control the quality strictly
3. Hydraulic press can reach16800mt
4. We have own check lab and QC Dep. to control the quality both the raw material and the products
5. Many years of experience in the production of export products

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UHMWPE板材 UHMWPE SHEET

UHMWPE板材是一种热塑性环保工程塑料，其粘均分子量在150-1200万之间，并赋予产品优越性能。UHMWPE具有卓越的耐磨损、自润滑、耐低温、耐冲击、不粘附、耐腐蚀、吸水率低以及卫生无毒等众多优异性能,广泛应用于输送机械、食品加工机械、包装机械、港口码头、矿山机械等领域，可降低能耗、降低噪音、维修方便，提高生产率。

Dingyuan Colored Virgin UHMW sheet is our standard grade of UHMW-PE sheet. It contains no reprocessed materials or additives. Its many desirable properties makeit extremely versatile. Our Dingyuan Colored Virgin UHMW PE sheet offers great abrasion resistance, high impact strength and excellent sliding properties, making it ideal for use in machine construction, plant construction and conveyor technology. It's also ideal for use for fender applications in ports, as a lining for highly exposed areas and as a material for the sports and skiing industry.

Dingyuan Colored Virgin UHMW PE sheet is resistant to low temperatures and most chemicals.

基本介绍 BASIC DATE

品名 Item	厚度 Thickness	常规尺寸 Standard	常规颜色 Sizecolor
超高分子量聚乙烯板材 Uhmw-pe sheet	5-300mm	10000×2200mm 2000×2000mm 1000×2000mm 1100×1100mm	白色，黑色，其他可按要求定制 White, black blue, yellow, customized color

技术参数 TECHNICAL DATA

品名:超高分子量聚乙烯板材 Product Name:UHMWPE Sheet				尺寸:3000×1500×15mm Specification:3000*1500*15mm		
NO.	项目 InspectionProject	单位 Unit	标准 Standard	检验结果 Data	结论 Conclusion	检验标准 Inspection Basis
1	冲击强度 Impact Strength	KJ/m^2	≥100	132	PASSED	GB/T1043.1-2008
2	拉伸强度 Tensile Strength	Mpa	≥19	24	PASSED	GB/T1040.3-2006
3	弯曲强度 Bending Strength	Mpa	≥26	32	PASSED	GB/T9341-2008
4	压缩强度 Compressive Strength	Mpa	≥30	34	PASSED	GB/T1041-2008
5	吸水率 Water Absorption	%	≤0.01	0.007	PASSED	GB/T1034-2008
6	密度 Density	g/cm^3	0.94~1.1	0.95	PASSED	GB/T1033.1-2008
7	球压痕硬度 Ball Indentation Hardness	N/mm^2	≥28	47	PASSED	GB/T3398.1-2008
8	热变形温度 Thermal Deformation Temperature	℃	70~100	86	PASSED	GB/T1634.1-2004
9	摩擦系数 Friction Coefficient		0.11~0.17	0.15	PASSED	GB3960-1983

UHMWPE板材 UHMWPE SHEET

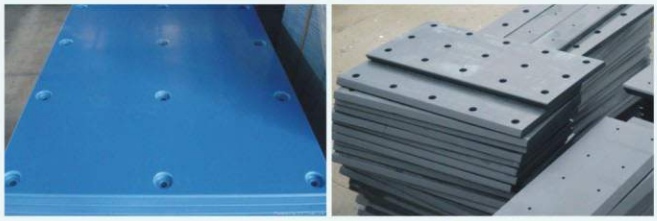
主要分类 TYPE

品种 Type	应用 Usage
普通UHMWPE板材 Normal UHMWPE sheet	输送机械、食品加工机械、包装机械、港口码头、矿山机械等领域 Machine construction, plant construction and conveyor technology. Ports, the sports and skiing industry
阻燃板材 Flame-retardant UHMWPE sheet	漏斗、漏槽、翻板、刮板输送机的滑道、跳汰机筛板、浮选机衬板、船舶货舱内衬板、大型滑块、矿车、翻斗车车厢衬里 Underground mining, Scraper blades, Hopper liners, Liner beds, Wear profiles, Impact slider bars, Chain guides
防辐射板材 Anti-radiation UHMWPE sheet	墙体墙面 屋顶等 医院防辐射场合 high intensity X-rays, cancer treatment facilities, nuclear submarines, and nuclear power plants
抗静电板材 Anti-static UHMWPE sheet	在矿山井下作业，码头，粮食加工等防静电部位 Grain elevators and munitions plants
含玻璃微珠板材 Glass-filled UHMWPE sheet	衬板，漏斗，料仓，滑块等 Liners, slider block
抗紫外线板材 UV resistant UHMWPE sheet	港口，码头，农业机械，露天料仓 Dock Fenders, Rub Rails, Wear Strips, Ice Rinks, Spreaders, Sprockets

玻璃纤维板材

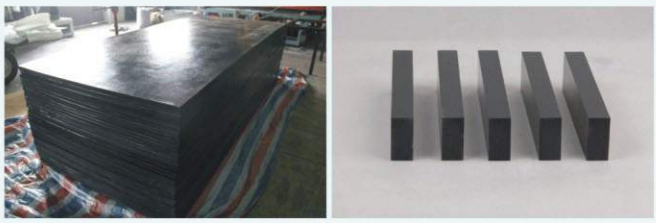
防辐射板材

防静电板材



抗紫外线板材

普通板材



阻燃板材

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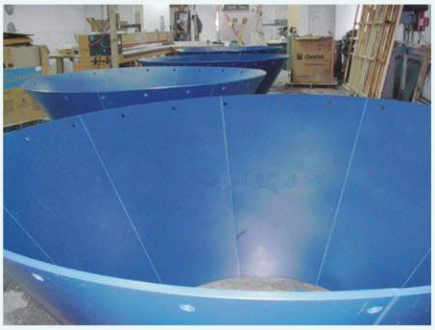
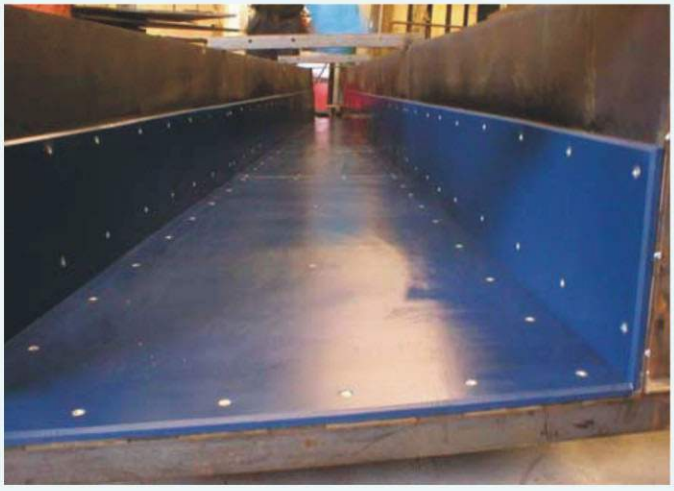
超高分子量聚乙烯（UHMWPE）衬板 UHMWPE LINER/LINING

UHMWPE衬板抗粘附，不挂灰，减少结垢现象；即使轻微结垢，清除也比较容易。管材耐磨损、耐腐蚀，可大大延长使用寿命，且不需要涂刷防腐涂料，能节省维护费用。广泛用于采选矿、冶金、选煤厂、火力发电厂、水处理、化学、制药工业、船舶、海水利用、石油工业等领域。

UHMWPE is a very rigid material for use in general plant engineering where the unique properties, excellent impact strength, wear and abrasion resistance are required.

基本特性 FEATURES

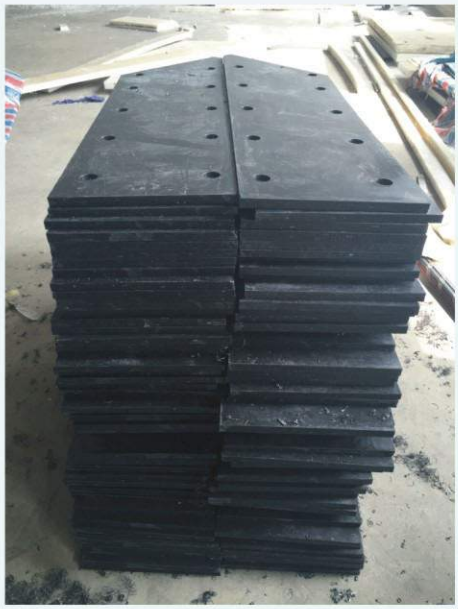
在所有热塑性聚合物中具有最高的耐磨性
低摩擦系数,优异的滑动轴承材料
良好的耐化学腐蚀和耐应力开裂性能
极低的吸水率(<0.01%)
良好的抗高能辐射性
生理惰性,FDA和USDA认可
即使在低温下仍有出色的抗冲击性
自润滑性(不结块,不粘附)
优异的机械加工性能
极佳的电绝缘性和抗静电性
密度比其它热塑性塑料低(< 1g/cm3)
长期使用温度范围: -269℃--90℃

Non-Stick
Self-lubricating
Promotes flow
Low coefficient of friction
Excellent abrasion resistance
Low and high temperature performance
Corrosion resistant
Good impact resistance
Noise deadening
Reduces maintenance

Applications:

Mining Liners for: Truck beds, Dragline buckets.
Coal Preparation Liners for: Chutes，Hoppers, Bunkers.
Transportation: Dump truck lining, Conveyor liners.
Bulk Material Handling: Grain，Coal, Sand

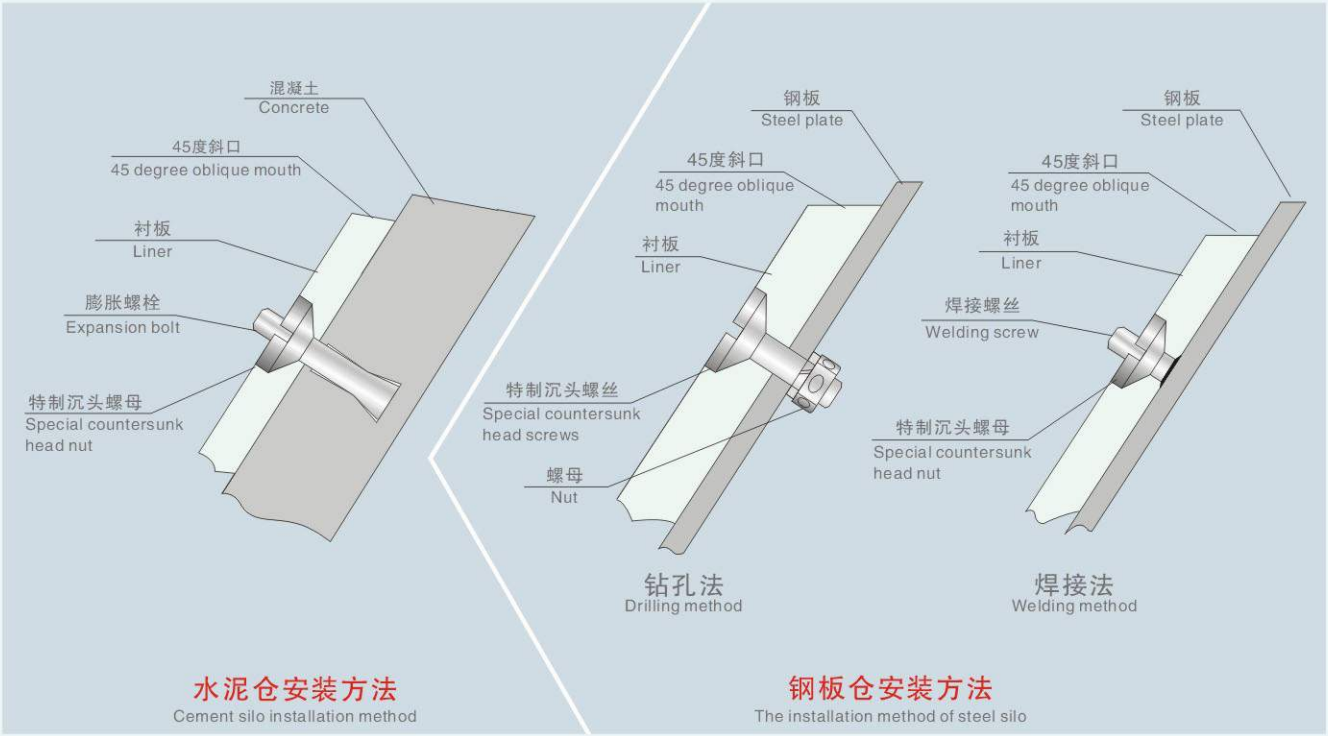
超高分子量聚乙烯（UHMWPE）衬板 UHMWPE LINER/LINING



安装方法 INSTALLATION METHOD

由于超高分子量聚乙烯衬板密度小，施工安装相当方便，与钢结构可以采用焊接、钻孔，特制沉头螺丝固定，与水泥结构可以采用特制沉头膨胀螺栓固定。我公司愿以先进的安装工艺和丰富的施工经验、合理的造价为用户提供一流的服务。

Because of ultra high molecular weight polyethylene liner light weight, installation is very convenient, and can be used for steel structure welding, drilling, special countersunk head screws, with water The mud structure can adopt special countersunk expansion bolt. My company is willing to install advanced technology and rich experience in construction, reasonable cost to provide users with first-class Service.



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UHMWPE 船舷板（港口码头防护板）

超高分子量聚乙烯护舷板具有重量轻，抗冲击，耐磨损，耐腐蚀，抗紫外线，耐老化，摩擦系数小，可有效防止由于紫外线照射。其冲击强度是聚氯乙烯的20倍，尼龙66的10倍，聚四氟乙烯的8倍。适用性广，也可作为船舶防撞装置。反力低，面压小，吸能量合理；对船舶靠泊时的恒摇和纵摇适应性强；安装维护方便。刮胶护舷板防撞能力更加强硬。

尺寸：10000×2200×（6–200)mm　5000×2200×(6–200)mm　5000×1100×(6–200)mm
3300×2200×（6–200）mm　2000×2000×6–200)mm　1100×1000×(6–200)mm

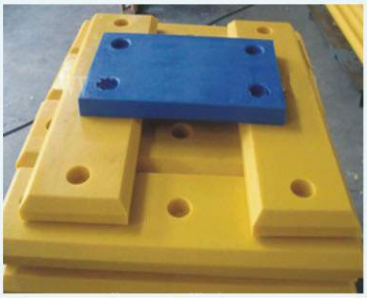
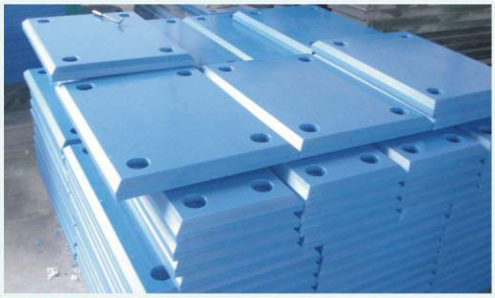
其他尺寸可以按照客户的要求加工生产。任何颜色都可以加工生产

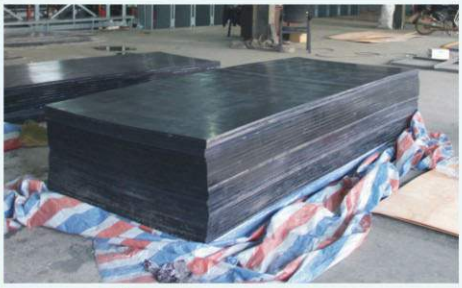
Dingyuan is a Chinese manufacturer of UHMW–PE (Ultra High Molecular Weight Polyethylene). This material is commonly used for marine and port construction applications, for example:

- Low resistance sliding pads on fender panels
- Low resistance slinding panels for bridge and pier protection
- Corner protection for offshore structures, berths and other marine facilitiesThe panels are available in various sizes (made to order) and colors. As a result, these panels can also be used for (limited) navigational purposes.

The UHMW–PE panels are always custom made, and can be supplied with countersunk holes and chamfers (as per customers specification).

The UHMW–PE is made in accordance with the latest DIN EN ISO standards. Product specifications are available upon request.



UHMWPE超高分子量聚乙烯溜冰场地板 ARTIFICIAL ICE RINK

UHMWPE人造溜冰场地板是由我公司研发生产的以纯超高分子量聚乙烯板材精制加工而成，主要应用其无油自润滑性和耐磨性，摩擦系数较小、耐冲击强度高等优点，燕尾方式联结使地板更平整牢固，其光滑程度堪于冰面比美，设计可室内室外，不受条件限制，是现在人造溜冰场首选。

Artificial or Synthetic ice rink is made up of a special plastic polymer that best resembles the consistency of a giant white cutting board. The synthetic ice rink is pieced together and is then sprayed with a special solution that reduces friction and enhances glide and speed, closely mimicking the traditional ice skating experience.

主要尺寸 STANDARD SIZE

长(mm) Length(mm)	宽(mm) Width(mm)	厚(mm) Thickness(mm)
1000	1000	12
1000	1000	15
1000	1000	20
1000	2000	12
1000	2000	15
1000	2000	20

Application:

- Figure ice skating schools
- Small to large-scale community rinks
- Portable solutions for outdoor events such as Christmas and holiday events, shows, etc.
- Summer option for conventional ice rinks

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UHMWPE起重机垫

支腿垫板主要用于垫在工程机械的支腿下，起支撑作用。支腿垫板具有较高的强度和刚度，进而能够减小受力时垫板本体的变形量，为工程机械提供更加稳定的支撑力。大大节约了使用成本提高了工作质量。

支腿垫由板状的垫板本体和手提绳两部分组成。板状的垫板本体采用UHMW高分子合成材料压制而成，可在恶劣环境下正常使用，超载使用宁弯而不断裂。

Dingyuan provides a very strong,durable,and cost-effective UHMWPE outrigger pad for all your rigging applications.
The advantage of UHMWPE outrigger pad:

- Non-Conductive
- Easy-to-Clean
- Chemical & Oil Resistant
- Storage-Friendly
- Durable & Long Lasting
- Manufactured in many shapes,including round,different size and color are also available

主要尺寸 STANDARD SIZE

长(mm) Length(mm)	宽(mm) Width(mm)	厚(mm) Thickness(mm)
400	400	40-150
500	500	40-150
600	600	40-150
700	700	40-150
800	800	40-150
1000	1000	40-150
1500	1500	40-150
2000	2000	40-150

Application for our UHMWPE outrigger pad includes :

- Fire Trucks
- Utility Trucks
- Tree Trimmers
- Concrete Pumps

UHMWPE导轨 UHMWPE CHAIN GUIDE

可来图定制不同颜色不同尺寸

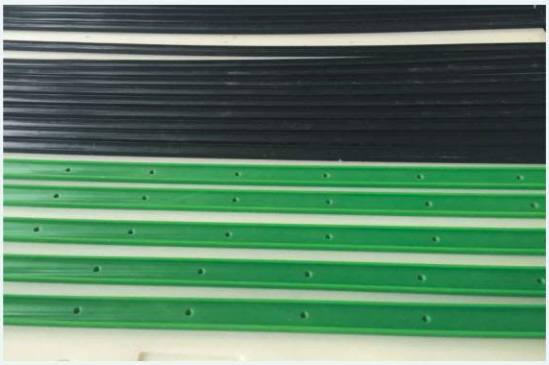
特性：具有耐磨性好，耐冲击，自润滑，耐低温，无噪音，不吸水等优良特性

应用：广泛应用于流水线、机床的导轨、导条、滑块、嵌条等。应用在输送机械、食品加工、包装机械等领域，可提高 设备利用率，降低能耗、降低噪音、提高生产率，还有抗冲击的性能。

Different size and color of our UHMWPE guide rails according to your special requirement.

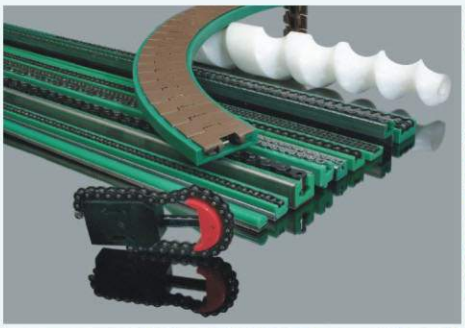
The advantage of DINGYUAN UHMWPE Guide rails

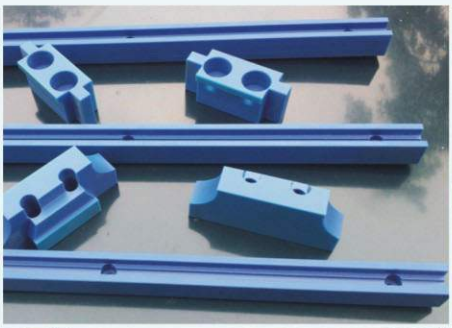
- High abrasion resistance
- Impact resistance, low density
- Self-lubrication, noise reduction
- Shock absorption performance
- Light weight and durable
- Long service life
- Easier clean up
- Precision Machined

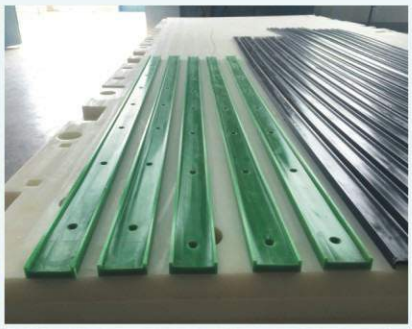


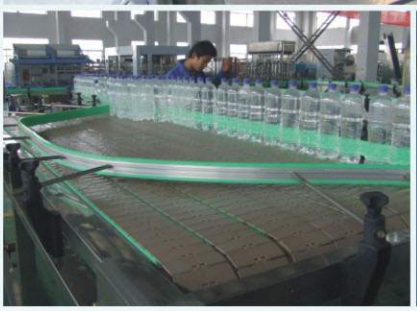
Application

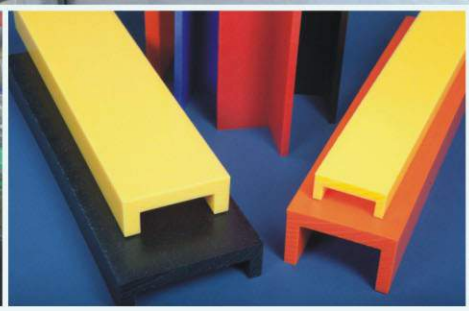
- Chain guides
- Wear curves
- Bearing surface
- Belt guides
- Textile Industry
- Chemical Industry
- Food Processing Industry and beverage light industry
- Paper Industry
- Farm Implement
- Mining & Metals Processing Industries

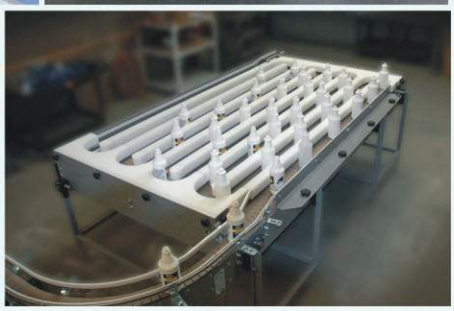












其他异形件 UHMWPE MACHINED PARTS

鼎元塑料拥有大型数控铣床（2m×5m×2台,1.3×2.8m×1台）、车床、刨床、钻床等先进的机械加工设备，具有强大的机械加工能力，结合多年深加工超高分子量聚乙烯的操作经验件，可在超高分子量聚乙烯板材的基础上，根据客户的要求，加工成各种形状的异性件。

UHMWPE machined parts is a thermoplastic engineering plastic. It combines the superior performance of all plastic, resistant to abrasion, impact resistance, chemical resistance, self-lubricating, low temperature resistance, small wear coefficient, light weight, aging resistance, and flame retardant, anti-static and other excellent performance.

超高分子量聚乙烯UHMWPE加工件应用领域 APPLICATIONS

矿山工业：制造人工槽装衬、闸板、链板、振动筛板、输送板、矿车衬板；

一般机械工业：制造各种轴套，齿轮，衬套，滑动板，叶轮等；

车辆制造及运输工业：主要制品有自卸车，自卸船衬板，火车车辆耐冲击零件等；

造纸行业：主要生产真空吸水箱面板和刮水板，压密部件，接头，机动密封轴杆，片导轮，刮刀，过滤器等；

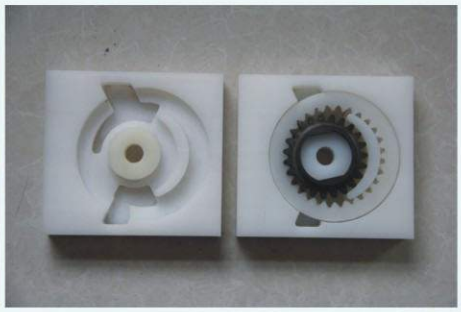
纺织工业：制造各种皮结，卷纤子，打梭棒，齿轮，联结， 扫花杆，缓冲块，杆轴套，摆动后梁等抗冲击耐磨损零件；

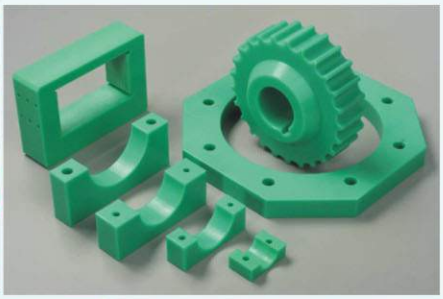
饮食轻行业：制造面板、菜板，工作面板，凸轮，齿轮等；

陶瓷业：制造各种规格滚压头，滤板，车轮等；

运动业：滑雪具衬里，履带冰雪汽车部件，滑翔机栏地板，钢球装置部件，各种轴承衬瓦套，滚动球道，机动雪橇零件等。

Paper industry suction box cover, doctor blade, forming plate, etc..
Mining lining in chute hopper.
Chemical pump housing, impeller.
Beverage industry packaging, bottling, guide rail, sprocket, roller, timing screw, wear stri
Textiles – picker.
Food processing cutting board and so on





其他异形件 UHMWPE MACHINED PARTS

汤阴县鼎元工程塑料有限公司
TANGYIN DINGYUAN ENGINEERING PLASTICS CO., LTD

托辊 UHMWPE ROLLER

超高分子量聚乙烯托辊具有极低的摩擦系数，良好的自润滑性，较好的耐磨损、耐腐蚀和不粘结性，而且抗静电，阻燃，抗冲击，重量轻易更换，节能效果明显，可大幅度的延长皮带使用寿命。

托辊直径:60mm, 76mm,89mm,108mm,114mm,127mm,133mm,159mm, (其他规格可定制)

密封件:迷宫式密封件

轴承型号: SKF,FAG,NTN,LYC,HRB(洛阳轴承、哈尔滨轴承)

UHMWPE is an outstanding plastic with the best self-lubrication, impact absorbing properties and the highest resistance to abrasion, impact, and chemicals of any thermoplastics polymer. It is regarded as an amazing material, and the new material will grow fast and be widely used.

Diameter: 60mm, 76mm,89mm,108mm,114mm,127mm,133mm,159mm,or as required

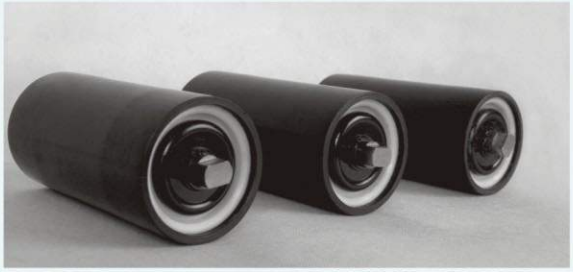
Color: White, black, blue, red, green or customized

应用领域

广泛适用于露天粉尘较大，腐蚀性高的环境中，如采矿业、化工、焦化、钢铁、热电、 电煤、粮食加工、糖业、食盐、水泥、石灰、砂石、玻璃、冶金、港口码头等行业。

Advantages of DINGYUAN UHMWPE roller:

- Non-stick and no materials accumulate
- Steady and flexible
- Long serving life
- Lengthen belt's life
- Low operation cost
- Reduce the operation noise
- Good seal and anti-corrosion performance



UHMWPE 棒材 UHMWPE ROD

超高分子量聚乙烯(UHMWPE)棒材是一种热塑性工程塑料，极高的分子量赋予其优异的使用性能，超高分子量聚乙烯几乎集中了各种塑料的优点。

1、极好的耐磨性，耐磨性高于青铜棒。

2、极高的耐冲击性，冲击强度可达到140 kj/cm^2。

3、极好的自润滑性和极低的摩擦系数。

4、极好的化学稳定性，几乎所有的酸碱溶剂都对其无损坏。

5、极好的耐低温性和耐环境开裂。

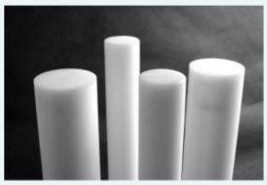
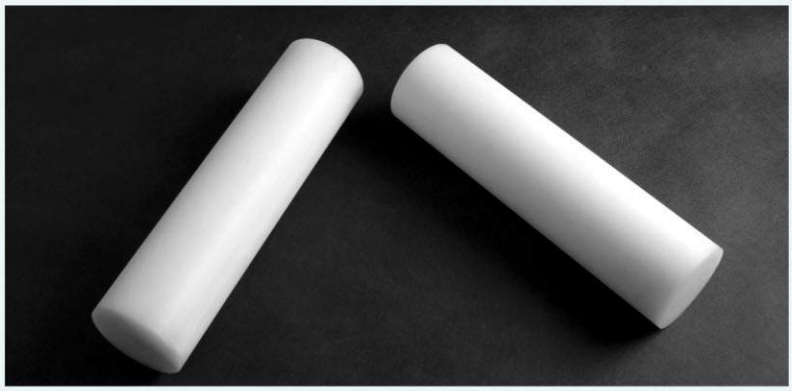
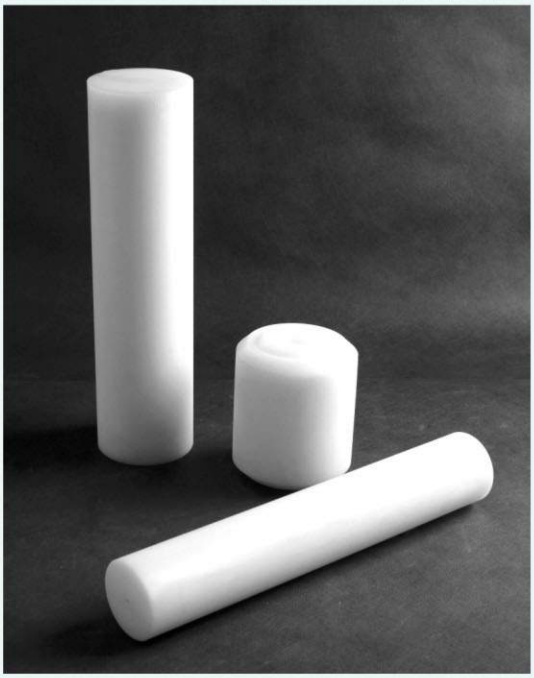
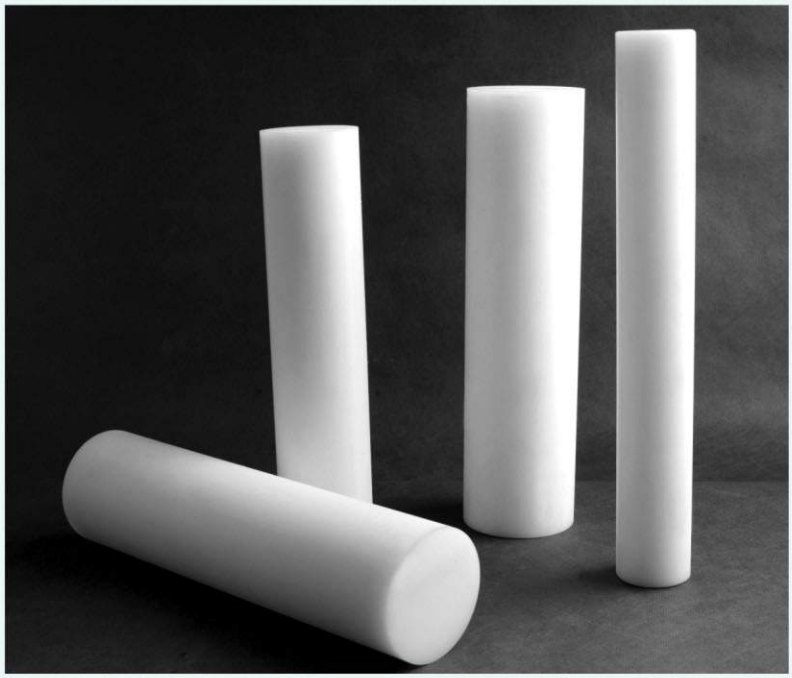
6、极好的不粘性，几乎不与任何物料粘接。

How does UHMWPE Rod perform
UHMWPE rod has an incredible resistance to abrasion and can outperform almost any engineering plastic in this regard.
It has a very low friction co-efficient and provides a bearing medium that is very free running and exceptionally long lasting.
It is resistant to many dilute acids, solvents and cleaning agents.
It has a max operating temperature of plus 90 C and a short term operating temperature of plus 120 C.

应用领域

超高分子量聚乙烯棒可以代替碳钢、不锈钢、青铜等材料用于包装机械、皮革机械、建筑机械、造纸机械、纺织机械、化学工业、化学机械、通用机械、体育用品、汽车、船舶、陶瓷工业等行业的机加工件、齿轮、凸轮、星型轮、蜗杆、垫圈、导轨、辊筒、链轮、滑块座、螺栓、螺杆、喷嘴、轴套、轴瓦、滑轮、缓冲轮、等多种产品。

Application
Sand, gravel or aggregate process applications
Food production environments
Areas of marine applications
The automotive and bottling industrial applications

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