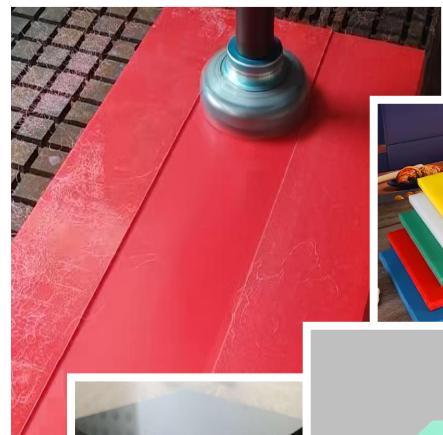


# Qingdao BKM Industry Co., Ltd.

Advanced Polymer Solutions Since 2000



# About BKM

**Qingdao BKM Industry Co., Ltd.** is a trusted manufacturer and global supplier of high-performance engineering plastics, specializing in HDPE, UHMWPE, and customized polymer solutions. With advanced CNC machining capabilities, strict quality systems, and export experience to over 60 countries, we deliver durable, precise, and reliable products for industries including sports, construction, logistics, marine, and mining.



From standard sheets and components to fully customized parts, we offer fast production, stable quality, and expert support—helping our clients optimize performance and reduce cost.

## Our Core Strengths:

**Product Excellence:** We supply premium engineering plastics renowned for technological sophistication, high added value, and versatility. Our portfolio includes standardized and fully customizable products tailored to unique industrial demands.

**Quality Assurance:** Rigorous quality control processes and adherence to international standards ensure superior performance, backed by certifications from authoritative industry bodies.

**Global Logistics Leverage:** Strategically positioned in Huangdao's world-class port ecosystem, we enable efficient, cost-effective global distribution and supply chain management.

**Technical Expertise:** Our team provides end-to-end support — from material selection and technical consultation to after-sales service — driven by the principle: "User needs define our mission."

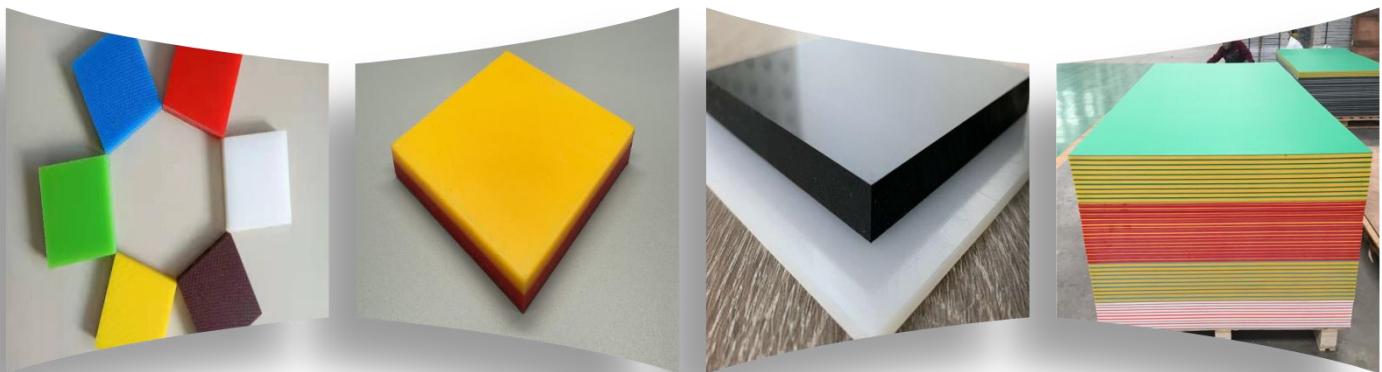
# Certifications & Compliance

Our products meet international standards for safety, quality, and environmental responsibility. Certified by leading authorities, we ensure full compliance for global trade and high-performance applications.

- RoHS Compliant (EU environmental safety)
- FDA Certification (food-grade material safety)
- Mining Safety Certification (for underground applications)
- ISO 9001 / 14001 / 45001 (Quality, Environment, Health & Safety Management Systems)

Trusted by industries worldwide, our certifications reflect our commitment to excellence and reliability.





## HDPE & UHMWPE Sheet

HDPE (High-Density Polyethylene) and UHMWPE (Ultra High Molecular Weight Polyethylene) sheets provide durable, low-friction, and chemically resistant surfaces ideal for industrial, structural, and commercial use. Available in custom sizes, colors, and textures—easily machined, welded, or cut for specific applications.

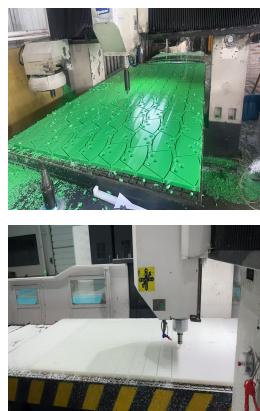
### Specifications

Property	Values	Test Method
Tensile strength at yield	25 MPa	527/D638
Elongation at Break	3	527
Modulus of elasticity in tension	1000 MPa	527/D638
Modulus of elasticity in flexure	1000-1400 MPa	178/D790
Impact strength	15 KJ/m <sup>2</sup>	179/D256
Creep rupture strength after 1000hrs with static load	12.5 MPa	
Time yield limit for 1% elongation after 1000hrs	3 MPa	
Ball indentation hardness	43 MPa	50771
Shore hardness D	64	868
Glass transition temperature	-95°C	53736
Crystalline melting point	130°C	53736
Service temperature (short term)	100°C	
Service temperature (long term)	80°C	
Water absorption @ saturation @ 23°C	<0.05%	
Volume Resistivity UV Stabilized	D257 Ohm-cm fine	



## Technical Specifications

- HDPE: Unlimited Length  $\times$   $\leq$  3.2 m Width  $\times$  1–45 mm Thickness
- UHMWPE:  $\leq$  6.0 m Length  $\times$   $\leq$  2.1 m Width  $\times$  10–240 mm Thickness
- Colors: Black, White, Green ...
- Processing: HDPE – Extrusion; UHMWPE – Compression Molding
- Services: CNC Machining, Cut-to-Size, Logo Printing
- Customizable in color, shape, size, molecular weight, surface pattern, and other special requirements



## Application

- Industrial Liners, Slides, and Chutes
- Food Processing Boards & Surfaces
- Mechanical Components (Bushings, Guides, Pads)
- Transport & Agricultural Wear Panels
- Marine & Outdoor Protection Structures



## Key Features

- High Chemical Resistance for Corrosive Environments
- Exceptional Wear & Impact Resistance (Especially UHMWPE)
- Waterproof with Low Moisture Absorption
- Easy to Cut, Drill, Weld, and Form
- FDA-Compliant Options for Food & Medical Use
- UV & Weather Resistant (HDPE)
- Eco-Friendly and Fully Recyclable
- Multiple Surface Options: Smooth / Matte / Embossed / Grid





## PE Custom Parts

We provide custom HDPE and UHMW-PE parts machined to your exact specifications. Whether for industrial guides, sliding components, or protective inserts, these parts offer long-lasting durability, excellent fit, and versatile performance across industries.



### Key Features

- Fully Customizable to CAD Drawings
- High Impact Resistance & Structural Toughness
- Low Friction & Wear-Resistant for Sliding Use
- Excellent Chemical & Corrosion Resistance
- UV-Stable & Weatherproof
- Lightweight Yet Durable
- Eco-Friendly & 100% Recyclable

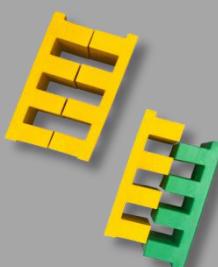


### Manufacturing Capabilities

- Materials: HDPE, UHMW-PE, Modified PE
- Processes: CNC Milling, Turning, Routing, Drilling
- Surface: Smooth / Textured / Grooved
- Colors: Black, White, Green, Red, Blue (Customizable)
- Volumes: Prototype to High-Volume Production

### Common Applications

- Guide Rails, Chain Tracks, Wear Strips
- Liners, Spacers, and Machinery Bumpers
- Sealing & Insulation Blocks
- Dock & Marine Sliding Pads
- Conveyor Impact Plates
- OEM Parts for Food, Mining, Logistics, Agriculture





**BKM**  
PLASTIC INDUSTRY

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