

# 美国杜邦POM 杜邦POM全系列

产品名称	美国杜邦POM 杜邦POM全系列
公司名称	上海灿美塑化有限公司
价格	.00/件
规格参数	
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## 产品详情

Polyoxymethylene (POM), commonly known as DuPont POM, is a versatile and high-performance material widely used in various industries. Renowned for its outstanding mechanical properties and excellent dimensional stability, DuPont POM is a preferred choice for numerous applications. In this article, we will take a comprehensive look at the DuPont POM product series, highlighting its unique features and benefits.

### 1. Chemical Composition:

DuPont POM is a type of thermoplastic polymer that belongs to the acetal family. It is a highly crystalline and semi-crystalline material, which contributes to its exceptional strength and stiffness. The chemical formula for DuPont POM is  $(-O-CH_2-O-)_n$ , indicating the repetitive nature of its molecular structure.

### 2. Mechanical Properties:

One of the key advantages of DuPont POM is its remarkable mechanical strength, providing excellent load-bearing capabilities. It exhibits a low coefficient of friction, ensuring smooth operation and reduced wear in various moving parts. With high modulus and rigidity, DuPont POM can withstand high stress levels without deformation. Furthermore, POM has exceptional resistance to creep, ensuring dimensional stability even under prolonged stress.

### 3. Thermal and Chemical Resistance:

DuPont POM offers good thermal stability, enabling it to withstand high temperatures up to 200 ° C (392 ° F). It also exhibits excellent resistance to chemicals such as alkalis, alcohols, oils, and solvents. Moreover, POM has low water absorption, ensuring its mechanical properties remain unaffected in humid or wet environments.

### 4. Electrical Properties:

Due to its low dielectric constant and high insulation resistance, DuPont POM is widely used in electrical and electronic applications. It has excellent arc resistance and tracking resistance, making it ideal for components in high-voltage environments.

## 5. Applications:

The versatility of DuPont POM allows it to be used in various industries, including automotive, electrical, consumer goods, and engineering. It is commonly utilized in gears, bearings, bushings, valves, fasteners, and other precision components. Furthermore, POM is suitable for manufacturing parts that require excellent dimensional stability, such as surgical instruments and precision instruments.

## 6. Environmental Considerations:

As a responsible company, Shanghai Canxian Plastics Limited is committed to providing sustainable solutions. DuPont POM is recyclable, allowing for the reduction of waste and the conservation of resources. Our production processes adhere to strict environmental regulations, ensuring minimal impact on the ecosystem.

In conclusion, DuPont POM offers a unique combination of mechanical strength, dimensional stability, and chemical resistance, making it a top choice for various applications. At Shanghai Canxian Plastics Limited, we take pride in offering premium quality DuPont POM products, backed by our commitment to environmental sustainability. Join the numerous industries that trust DuPont POM for their engineering and manufacturing needs. Choose DuPont POM for unrivaled performance and reliability!