



深圳市以特诺科技有限公司  
SHENZHEN ETERNAL TECHNOLOGY CO.,LTD

# Sponge Roller

Professional Manufacturer More Than 10+ Years

# Product Show



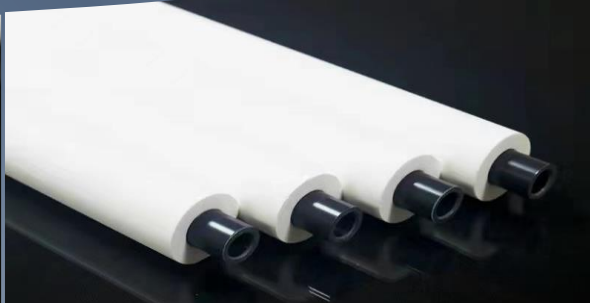
**EPDM吸水海绵滚轮**  
**FoamingRoll**



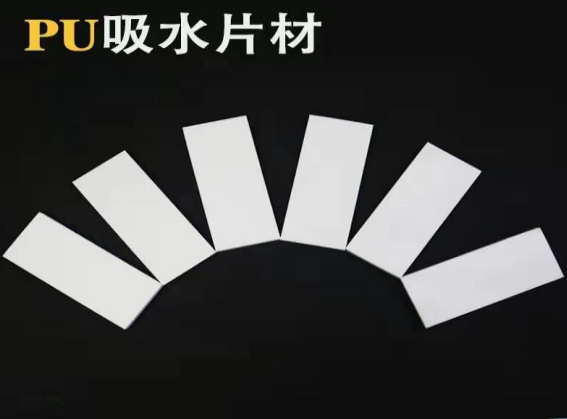
**PO吸水海绵滚轮**  
**FoamingRoll**



**PVA吸水海绵滚轮**  
**FoamingRoll**



**FoamingRoll**  
**PVC吸水海绵滚轮**



**PU吸水片材**



**PP吸水海绵滚轮**  
**FoamingRoll**



**FoamingRoll**  
**CSQII吸水海绵滚轮**



**PU吸水海绵滚轮**  
**FoamingRoll**

The company's unique technology is used to produce a special polyurethane sponge. Different from the previous foam, because it is a micro continuous bubble, it is excellent in softness, elasticity, water absorption, water retention, heat resistance, drug resistance, less shedding, wear resistance, and wear resistance.

# PU Sponge Roller



## Introduction

Using Japan's advanced ultrafine continuous foaming technology, superior water absorption, toughness, friction resistance, longer service life. The performance is much better than PVA and other products.

## Feature

Not dry hard, high temperature resistance 110 degrees, super absorbent, toughness, resistance to friction, no chips.

## Note

After use, use a container (kettle) to pour tap water on the ROLL on the machine, and then use the hand squeeze to clean

Just put dirt on the ROLL. The roller does not need special water supply, will not dry in the state of no water, and will always maintain the roundness and elasticity of the roller appearance.

# PU Sponge Roller

## Technical Specification



物性	Physical Features	
气孔直径	Pore size	5~10 $\mu$
气孔率	Porosity	80%
保水率	Water preservation	300%
比重	Spjectfic gravety	0.26/cm <sup>3</sup>
耐热性	Max temperature	120°C
引张强度	Tensile strength	13.0kg/cm <sup>3</sup>
延伸性	Elongation	400%
硬度	Hardness	10°

# PO Sponge Roller



## Introduction

1. Japan's advanced ultrafine continuous foaming technique is adopted
2. Polyurethane as raw material
3. Mainly used in circuit board, inner board, liquid crystal display, etc

## Feature

Corrosion resistance, no hardening, drug resistance, hydrophilicity.

## Note

1. After use, use a container (kettle) to pour tap water on the ROLL of the machine, and then use the hand to squeeze and clean  
Just put dirt on the ROLL
2. The roller does not need special water supply, and will not dry and hard in the state of no water, and will always maintain the roundness and elasticity of the roller appearance

# PO Sponge Roller



## Technical Specification

物性	Physical Features	
气孔直径	Pore size	60 $\mu$
气孔率	Porosity	75%
耐热性	Max temperature	70 $^{\circ}$ C
引张强度	Tensile strength	420
延伸性	Elongation	200%
硬度	Hardness	15 $^{\circ}$

# PVC Sponge Roller



## Introduction

1. Japan's advanced ultrafine continuous foaming technique is adopted
2. Not easy to drop chips, high tensile strength, not easy to deformation
3. Good drug resistance, for general organic solvents have chemical resistance, long-term exposure to acid and alkali solution is not easy to change

## Feature

1. High foam density and continuous foam foam, with excellent acid and alkali resistance, durability.
2. In the dry state can maintain elasticity and softness, and not dry hard, no need to add water moisturizing.

## Note

The outer diameter error of the PVC roller is 5% of the soil, more than 10 days of impregnation in water, there will be 10% expansion error of the soil, and the above test is 10 days of external roundness and elasticity

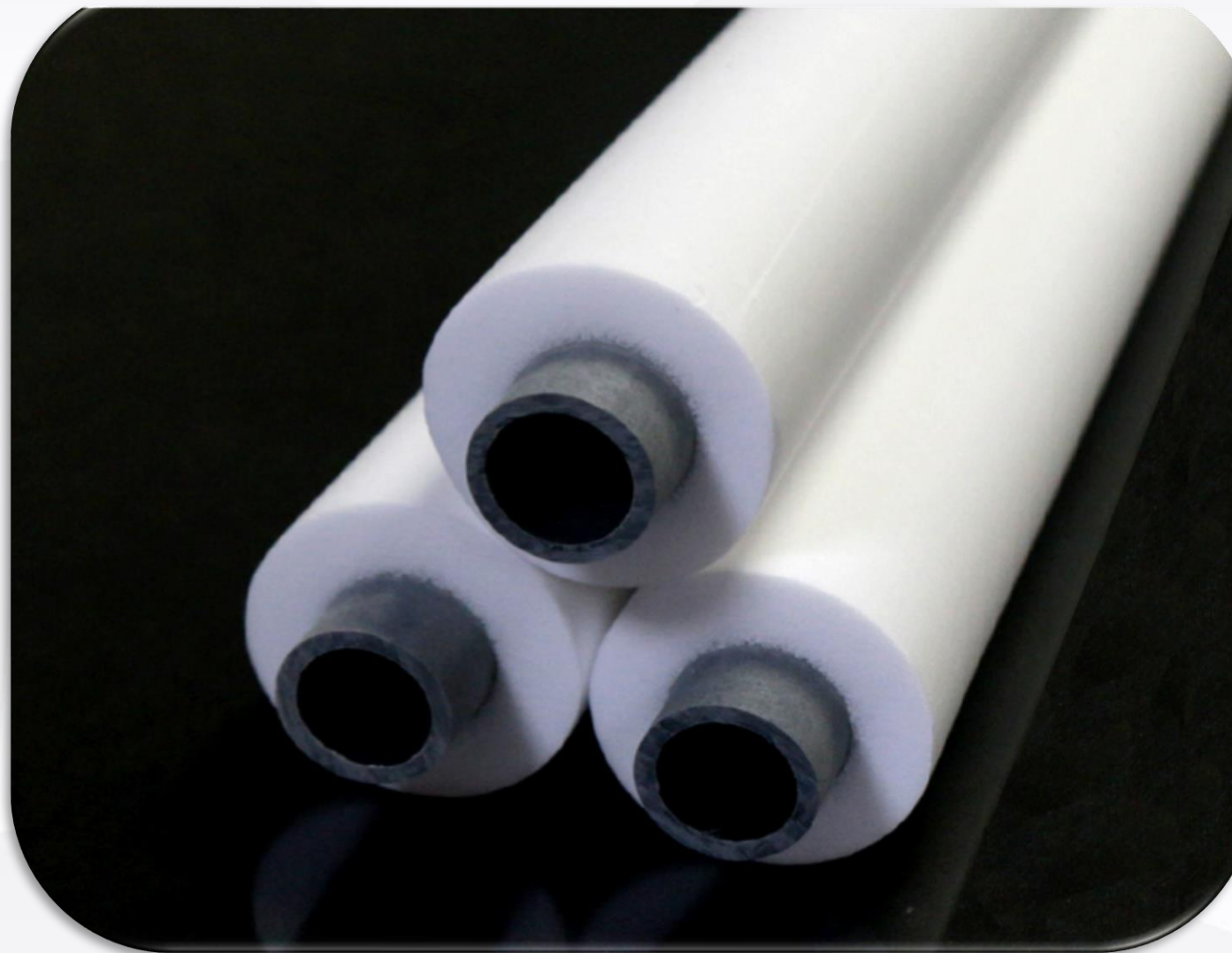
# PVC Sponge Roller



## Technical Specification

物性	Physical Features	
比重	Spjctfic gravity	0.35~0.37g/cm <sup>3</sup>
气孔率	Porosity	73~75%
保水率	Liguichhold	280%
孔径	Pore size	2~50μ
耐温	Max temperature	60°C
延展率	Elongation	125~131%

# PVA Sponge Roller



## Introduction

Sponges have good elasticity, water absorption rate of 8-10 times (self weight), do not open glue, do not drop slag, solvent resistance and weak acid and alkali can be good, white and soft, after special anti-mildew treatment, will not mold within 6 months. Domestic R & D and high quality production prices are far lower than imported similar products can greatly save production costs.

## Feature

Strong toughness, resistance to friction, no chips.

## Note

1. ROLL is dry and hard without moisture
2. Soak the ROLL in water for more than 2 hours before use, and squeeze the ROLL internal hard block completely, squeeze out excessive water and then install on the machine  
(Do not place dry ROLL directly on the machine).

# PVA Sponge Roller



## Technical Specification

物性	Physical Features	
比重	Spjectfic gravety	0.1~0.15%/cm <sup>3</sup>
气孔率	Air holt rate	90%
保水率	Water preservation	13倍
孔径	Hole diameter	60~130μ
引张强度	Stretchability	4kg/cm <sup>2</sup>
引伸强度	Extensibility	300%

# PP Sponge Roller



## Introduction

A new product specially developed for the chemical extrusion fluid of base plate. Using polyethylene as a chemical bridge, improved polymer structure of the micro foam.

## Feature

Heat resistance, alkali resistance, wear resistance, acid resistance, liquid cutting.

## Note

1. When not in use, it should be often maintained in clean water to avoid deformation
2. The use environment cannot exceed 80° C, which will shorten the use period of aging
3. Daily extrusion cleaning with water can increase the service life of the sponge roller and maintain the roundness and elasticity of the roller

# PP Sponge Roller



## Technical Specification

物性	Physical Features	
外观密度	Spjectfic gravety	0.031g/cm <sup>3</sup>
拉抗强度	Tensile strength	1.6kg/cm <sup>2</sup>
延展力	Elonation	220%
耐热性	Max temperature	60°C
压缩比	Compression ratio	7.8%

# EPDM Sponge Roller



## Introduction

Vertical plating line accessories can play a role in water retention.

## Feature

Acid and alkali resistance, corrosion resistance, good elasticity, no damage to the board durable. Customized according to user needs.

## Note

1. When not in use, it should be often maintained in clean water to avoid deformation
2. The use environment cannot exceed 80° C, which will shorten the use period of aging
3. Daily extrusion cleaning with water can increase the service life of the sponge roller and maintain the roundness and elasticity of the roller

# EPDM Sponge Roller



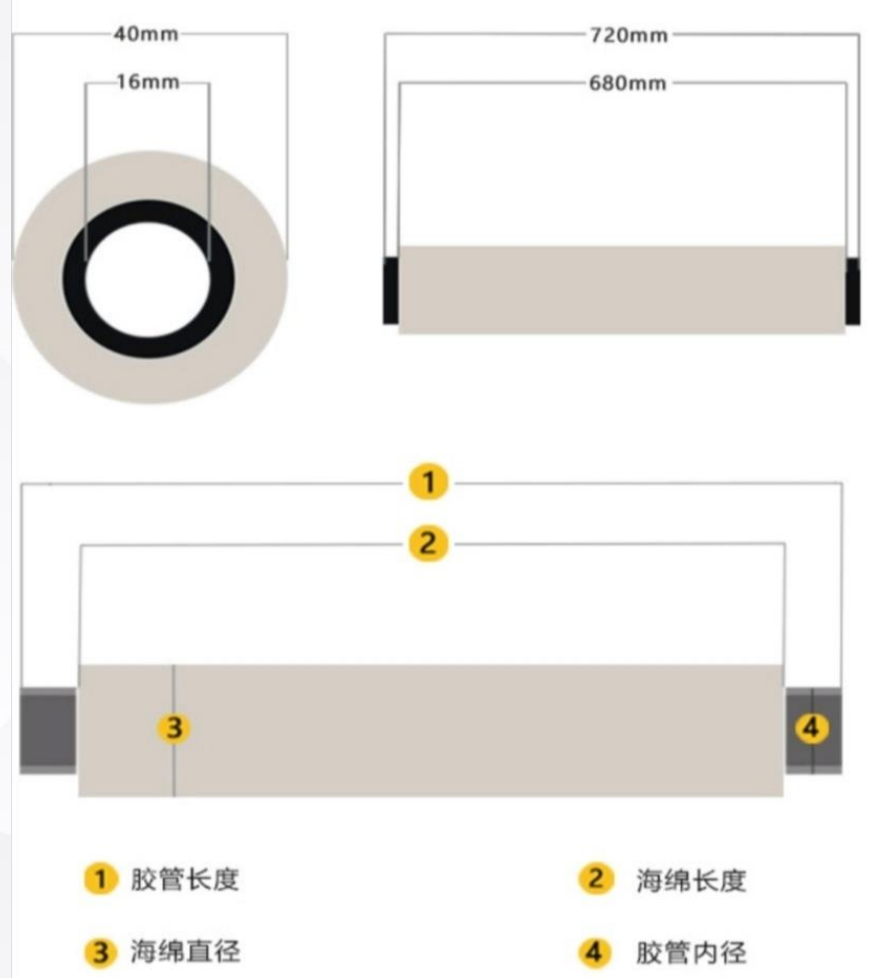
## Technical Specification

物性	Physical Features	
外观密度	Spjectfic gravety	0.033g/cm <sup>3</sup>
拉抗强度	Tensile strength	1.8kg/cm <sup>2</sup>
延展力	Elonation	220%
耐热性	Max temperature	65°C
压缩比	Compression ratio	7.5%



# Size Provided

ID, OD, Effective/Total Length



# Summary

PU

High temperature resistance  
110 degrees, strong water  
absorption, resistance to  
friction, no chips

PO

Corrosion resistance, no  
hardening, drug resistance

PVC

It has excellent acid and  
alkali resistance and  
durability

PVA

Good elasticity, water absorption r  
ate 8-10 times (self weight), no glu  
e, no slag, solvent resistance and w  
eak acid and alkali ability

PP

Heat resistance, alkali  
resistance, wear resistance, acid  
resistance

EPDM

Vertical plating line accessories,  
can play a role in water retention

