

# PRODUCTION ENVIRONMENT

The production environment of each product is a 10K and 100K-level clean room, and runs ISO 13485:2016 and GMP quality management system, strictly controlling various production details and the preservation of complete manufacturing records and documents.



# QUALITY CONTROL

We always adhere to the "product quality service productization, innovation and continuous management of humanity", so that each customer experience a new treatment, enjoy the best plan, Smile more confident, live more exciting.



Humidity control room



Production line



Quality Control

# ORTHODONTICS MATERIALS

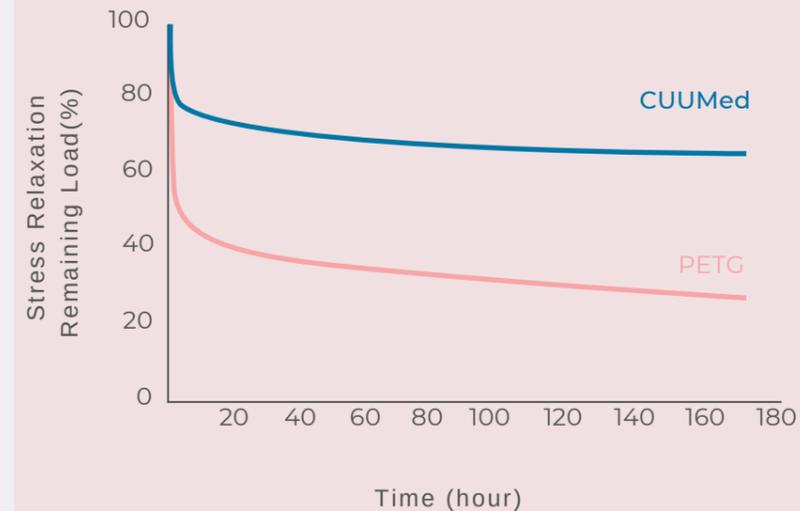
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## ADVANTAGE

Our material is a rigid thermoplastic elastomer, specially developed for the application of retainers and orthodontic appliances. The product is optimized to achieve a variety of ideal performance balances including: tear resistance, impact strength, stress retention, durability, stain resistance and optical transparency. This material has the advantages of safety implant compatibility, durability, and ease of processing required by modern orthodontic procedures.

### Orthodontic appliances' mechanical properties

The mechanical properties of orthodontic materials can be evaluated by the residual load data of the stress relaxation test. CUUMed's and general commercial PETG materials are tested under 100% relative humidity. This material obviously has a better residual load ratio, which means our advanced materials will enable you to have a longer correction period and a better correction effect during the wear period.



### Orthodontic appliances' stain resistance

Dental appliances are often exposed to food oils, coffee, stains, toothpaste, and mouthwashes. Such exposure can cause many dental materials to turn yellow or undergo discoloration and structurally deteriorate. CUUMed's materials have undergone a 2-week immersion dyeing test, and the results show that they have excellent yellowing inhibition performance compared with general commercial PETG materials.



Notes:  
 [1] Each testing sample was soaked in coffee at 37°C for an hour twice a day for 2 weeks to simulate the habit of drinking coffee every day.  
 [2] The testing was performed to evaluate Byk-Gardner yellowness index by using ASTM E313, and changes were recorded.

# ADVANCED MATERIALS



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CUUMed has a 10K level cleanroom dedicated to medical devices, equipped with precision injection molding and extrusion processing capabilities, which is designed to provide solutions for the invisible orthodontic and oral care devices industry.

## Economic and Comfortable Series

### CF

The CF series adopts special medical grade elastomer material, which is easy to fabricate and cut, with appropriate biomechanical properties and wearing comfort.

## Long-Lasting Retention Series

### ST

The ST series adopts ultra-high hardness thermoplastic polyurethane material, which has high stress retention rate, good tear resistance, and obvious correction effect.

## Multilayer Compound Series

### ML

Multilayer dental coping sheets are designed according to different clinical needs, exhibit balanced biomechanical properties and can provide physicians and patients with comprehensive options.

## Special Functional Series

### FN

The CUUMed R&D team has created a new series of drug-loading sheets and anti-bruxism products, which provide a comprehensive solution for dental health care.

# DENTAL COPING SHEETS

## GUIDE FOR DENTAL COPING SHEET



**Product Series**  
ST = Long-lasting retention series  
ML= Multilayer Compound Series  
CF = Economic and Comfortable Series  
FN = Special Functional Series

**Identifier**

**Orthodontic Force (CF Series)**  
HXX = High Orthodontic Force  
MXX = Comfort  
LXX = High comfort

**Product Form**  
S = Sheet  
R = Roll

**Thickness**  
40 = 0.40 mm  
50 = 0.50 mm  
63 = 0.63 mm  
76 = 0.76 mm  
10 = 1.00 mm

**Dimension**  
125 = 125mm

**Shape**  
CE = Circle  
SE = Square



# DENTAL COPING ROLLS

## GUIDE FOR DENTAL COPING ROLL



**Product Series**  
 ST = Long-lasting retention series  
 ML= Multilayer Compound Series  
 CF = Economic and Comfortable Series  
 FN = Special Functional Series

**Identifier**

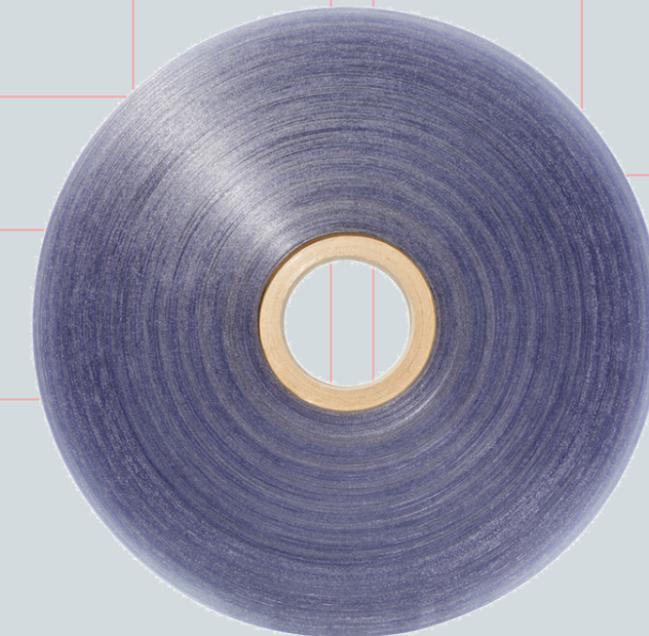
**Orthodontic Force (CF Series)**  
 HXX = High Orthodontic Force  
 MXX = Comfort  
 LXX = High comfort

**Product Form**  
 R = Roll  
 S = Sheet

**Thickness**  
 40 = 0.40 mm  
 50 = 0.50 mm  
 63 = 0.63 mm  
 76 = 0.76 mm  
 10 = 1.00 mm

**Dimension**  
 137 = 137mm  
 123 = 123mm

**Paper Roll ID**  
 770 = 77 mm  
 152 = 152 mm



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# ORTHODONTIC ELASTICS

**With the advent of direct bonding technology, various attachments can be directly bonded to the tooth surface, and the lingual fixed appliances was also invented at the same time.**

- ◆ Closing the gap: slowly close the extraction space while wearing an elastic ring.
- ◆ Adjust the occlusion: Adjust the occlusal relationship of the teeth to a relatively ideal state.
- ◆ Adjust the midline: pull the teeth to the expected position to prevent the incorrect midline of the teeth from affecting the appearance.
- ◆ Improve mastication efficiency: make the upper and lower teeth close together, maximize the contact area and maximize the mastication efficiency.



This product is made of a special polymer elastomer, which has excellent tolerance and stain resistance to common beverages in the oral cavity, and has good biocompatibility to assist in perfect orthodontic treatment.

# ORAL CARE PRODUCTS



Special material Aligner with drug loading function, which can be used for teeth whitening and dental care. Thanks for the advance micro cell technology thus a highly storage capacity and slow release function of drug can be reached.



Drug Loading Aligner



Whitening Aligner