SINO ORTHO LIMITED

(2025-2026)

# PRODUCT INSTRUCTIONS
# - ELASTOMERICS -







[ YOUR TRUST,OUR RESPONSIBILITY ]

# Orthodontic Ligature Ties

## [Product Description]





Orthodontic ligature ties are made of **high-quality medical-grade polyurethane (TPU)**, offering **excellent color stability**, **elasticity**, and **rebound characteristics**.

These ligature ties are available in **49 colors**, including custom color options, allowing for aesthetic flexibility during treatment.

The product ensures **secure ligation** of the archwire to the bracket with consistent force delivery and is ideal for use with self-ligating brackets or traditional brackets.

In addition to **normal round ligature ties**, we also offer **Mickey Ties**, **Flower Ties**, **Kitty Ties**, and **V-Ties** for added variety and customization.

## [Material Composition]

Made of **medical-grade polyurethane (TPU)**, latex-free, non-toxic, and safe for intraoral use.

## [Size Range]

/

## [Intended Use]

Used in orthodontic treatment to ligate the archwire to the bracket, ensuring proper engagement and force transmission.

## [Instructions for Use]

**1. Selection** Select the appropriate **ligature tie size and color** based on the patient's treatment needs and bracket type.
**2. Placement** Using the **ligature tie gun**, place the ligature tie around the bracket and over the archwire. Using gentle pressure, secure the ligature tie to ensure proper wire engagement.
**3. Adjustment** Ensure that the ligature tie is **firmly in place** and does not interfere with the movement of the archwire.
**4. Post-use** Dispose of used ligature ties as **medical waste**; do not reuse.

## [Packaging]

**Normal ligature ties:**
Each tie contains **26 pcs**, with **40 sticks per pack**, for a total of 1 040 pcs per pack.

**V-Ties:**
Each tie contains **10 pcs**, with **100 sticks per pack**, for a total of 1 000 pcs per pack.

**Mickey, Flower, and Kitty Ties:**
Each tie contains **40 pcs**, with **25 sticks per pack**, for a total of 1 000 pcs per pack.



Assorted Ligature ties
Packing: 26*40=1040 pcs/pk

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## [Precautions]

·**For use only by qualified orthodontic professionals.**
·**Do not stretch or force ligature ties during placement** to prevent material breakage or improper ligation.
·**Single-use only — do not reuse or share between patients.**
·**Avoid excessive force** during insertion to prevent gingival injury or dislodgement.
·**Instruct patients to maintain oral hygiene** and avoid chewing hard or sticky foods.
·Replace ligature ties if they become **discolored**, **lose elasticity**, or **break** during treatment.

## [Contraindications]

Contraindicated for patients allergic to **latex or polyurethane materials**.
If any signs of hypersensitivity occur, discontinue use and seek medical attention.

## [Storage Conditions]

Store in a **clean, dry, and well-ventilated room** with **relative humidity ≤ 80%**, away from sunlight, heat sources, and corrosive gases.

## [Shelf Life]

**Shelf life: 3 years** under proper storage conditions.
Do not use after the expiration date printed on the package.

## [Warranty]

A **36-month warranty** is provided against **defects in materials or manufacturing** under proper storage and intended clinical use.
This warranty does **not cover misuse, improper handling, or non-clinical damage.**

# Orthodontic Rubber Bands

## [Product Description]

Orthodontic rubber bands are made of **medical-grade polyurethane (TPU)** using **precision injection molding technology**. The surface is smooth, color uniform, and free from defects or odor. The bands provide **consistent force delivery**, **excellent elasticity**, and **stable performance during intraoral use**.



The product meets orthodontic mechanical requirements for force retention and tensile strength in accordance with YY 0624-2008. Each batch undergoes **tensile and elongation testing**, ensuring that residual tensile force is **≥ 50 % of the initial deformation tensile force**.

## [Material Composition]

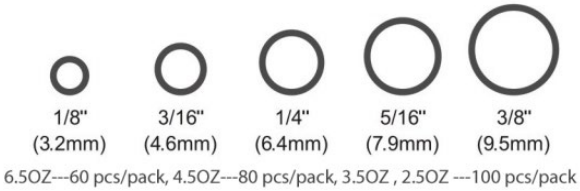
Made of **medical-grade polyurethane (TPU)** and safe for intra-oral use. Latex-free rubber bands are also available.

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## [Size Range]

Orthodontic rubber bands are available in multiple **diameters** and **force levels**, providing flexible combinations to meet various clinical traction needs.

**Animal Identification System (by diameter, from smallest to largest):**




**Force Levels (independent of animal symbol):**

- **Light** – Gentle continuous force for minor adjustments
- **Medium** – Standard force for general inter-arch traction
- **Heavy** – Strong force for large movement or anchorage control

This dual identification system allows clinicians to easily select the **appropriate diameter and traction strength** according to individual patient requirements.

## [Intended Use]

For use with fixed or removable orthodontic appliances to provide **inter-arch traction** or **directional tooth movement** (e.g., Class II or Class III correction, midline adjustment, bite closure).

## [Instructions for Use]

**1. Selection** Select the rubber band size and force value according to the treatment plan prescribed by the orthodontist.

**2. Disinfection** Before clinical use, disinfect with **75 % alcohol for 20–30 min**, then rinse thoroughly with sterile water at least three times and dry completely.

**3. Placement** Use orthodontic forceps to hook the rubber band onto the designated bracket / buccal tube / hook according to the required traction direction.

**4. Duration** Each band should be worn **no longer than one week** and replaced immediately if it loses elasticity, discolors, or breaks.

**5. Post-use** After removal, discard as **medical waste**. Do not reuse.

## [Packaging]

Packed in sealed **plastic bags or boxes**, with **100 pcs per small pack**, and bulk packaging of **5 000 pcs per outer bag**.

## [Precautions]

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For use only by qualified **orthodontic professionals**.

**Sterilize** or **disinfect** before clinical application as appropriate.

Single use only: **do not reuse or share** between patients.

**Avoid high temperature, sunlight, or chemical contact** that may cause aging or deformation.

Advise patients to maintain **oral hygiene** and avoid chewing hard or sticky foods.

**Replace** immediately if the elastic shows loss of tension, color change, or fracture.

### [Contraindications]

Contraindicated for patients allergic to **latex or polyurethane materials**. If any signs of hypersensitivity occur, discontinue use and seek medical attention.

### [Storage Conditions]

Store in a **clean, dry, ventilated room** with **relative humidity ≤ 80 %**, away from sunlight, heat sources, and corrosive gases.

### [Shelf Life]

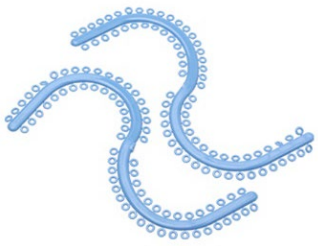
**Shelf life: 3 years** under specified storage conditions.
Do not use after the expiration date indicated on the package.

### [Warranty]

A **36-month warranty** is provided against **defects in materials or manufacturing** under proper storage and intended clinical use.
This warranty does **not cover misuse, improper handling, or non-clinical damage.**

## Orthodontic Separators

### [Product Description]



Orthodontic separators are made of **medical-grade polyurethane (TPU)** using **precision molding technology**.

The surface is smooth and uniform, with stable elasticity and excellent recovery.

The separators are designed to create **temporary interproximal spacing** prior to band placement, reducing patient discomfort while maintaining consistent expansion force.

The product complies with **YY 0624-2008 Orthodontic Elastomeric Materials** standards for tensile strength and residual force.

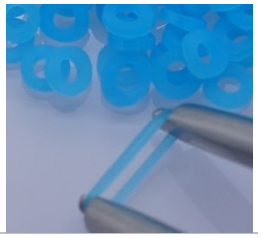
### [Material Composition]

Made of **medical-grade polyurethane (TPU)**, non-toxic, and safe for intraoral use.

### [Size Range]

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**Outer diameter:** 4.5 mm **Inner diameter:** 1.5 mm
**Elongation** at break: > 300%



**Radiopaque Separators** are available for better visibility in X-rays, helping orthodontists ensure proper placement and monitor treatment progress.

## [Intended Use]

Used prior to orthodontic band placement to **create interproximal spacing (approximately 0.2 mm)** between adjacent teeth.

This facilitates easier and more accurate molar band fitting and reduces distortion or deformation during band installation.

## [Instructions for Use]

**1. Selection** Choose the separator size according to the patient's dentition and the required interproximal spacing.
**2. Disinfection** Before use, disinfect separators by soaking in **75 % alcohol for 20–30 minutes**, rinse with sterile water three times, and dry completely.
**3. Placement** Using orthodontic separating pliers, stretch the separator and place it gently **between the mesial and distal contact points** of the target tooth.
Use minimal force to avoid gingival trauma.
**4. Duration** Keep the separators **in position for 1 week** (depending on patient tolerance and space needed).
Remove them before band placement or when sufficient spacing is achieved.
**5. Post-use** Dispose of used separators as **medical waste**; do not reuse.

## [Packaging]

Packed in **plastic bags or boxes**, available in sets of **1 050 pcs per pack**, or customized as required.

## [Precautions]

- **For use only by qualified orthodontic professionals.**
- **Sterilize or disinfect before clinical application.**
- **Single-use only — do not reuse or share between patients.**
- **Avoid excessive force** during insertion to prevent gingival injury or dislodgement.
- Instruct patients to **avoid sticky or hard foods** that could dislodge separators.
- Replace immediately if separators **discolor, lose elasticity, or break.**

## [Contraindications]

Contraindicated for patients allergic to **latex or polyurethane materials**.

If any signs of hypersensitivity occur, discontinue use and seek medical attention.

## [Storage Conditions]

Store in a **clean, dry, well-ventilated room** with **relative humidity ≤ 80 %**, away from sunlight, heat, and corrosive gases.

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### [Shelf Life]

**Shelf life: 3 years** under proper storage conditions.
Do not use after the expiration date printed on the package.

### [Warranty]

A **36-month warranty** is provided against **defects in materials or manufacturing** under proper storage and intended clinical use.
This warranty does **not cover misuse, improper handling, or non-clinical damage.**

## Orthodontic Power Chain

### [Product Description]

Orthodontic power chains are made of **high-elasticity polyurethane (TPU)**, offering **superior memory and rebound**, making them ideal for continuous tooth movement.
Power chains have **excellent color stability**, ensuring they remain aesthetically pleasing throughout treatment.
These power chains are designed for easy ligation under the tie wings of brackets and come with a standard **thickness of 0.7 mm ± 0.05 mm**, making them particularly suitable for **lingual treatment** where space constraints may exist.

### [Material Composition]

Made of **medical-grade polyurethane (TPU)**, non-toxic, and safe for intraoral use.

### [Size Range]

Orthodontic power chains are available in **three different sizes**, each with a unique **circle spacing** to meet various clinical needs.

- **Long:** Circle spacing **4.0 mm**
- **Short:** Circle spacing **3.5 mm**
- **Closed:** Circle spacing **2.8 mm**

In addition, **48 colors** are available, and a **two-toned power chain** option is also offered, with **24 colors** to choose from.
This allows orthodontists to select the best color and force configuration based on patient preferences and treatment goals.

### [Intended Use]

Used in orthodontic treatment to **apply continuous force** between brackets, helping to move teeth into the desired position.

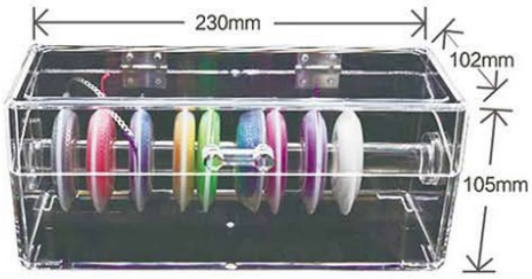
### [Instructions for Use]

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**1. Selection** Select the **power chain** based on patient needs, considering options for **distance (close, short, long)** and **color preferences**.
**2. Placement** Place the power chain over the tie wings of the bracket and **link with hooks or screws** until the desired securement has been achieved. Ensure there is no slack or excessive tension.
**3. Monitoring** The patient should be monitored regularly to ensure the power chain is securely placed and the desired tooth movement is achieved.
**4. Replacement** Replace the power chain if it shows signs of discoloration, loss of elasticity, or breakage.

## [Packaging]

**Packaging**: PP clear bag
**Each roll contains 15 feet of power chain, which can be cut into the required length.**
**Power Chains Holder**: Dimensions **230 mm × 102 mm × 105 mm**, designed to securely store and dispense power chains during use.



**Power Chains Holder**
**Ref: PK04-01**

## [Precautions]

·**For use only by qualified orthodontic professionals.**
·**Sterilize or disinfect before clinical application as appropriate.**
·**Single-use only — do not reuse or share between patients.**
·**Avoid excessive force** during placement to prevent damage to brackets or soft tissues.
·Instruct patients to maintain **oral hygiene** and avoid chewing hard or sticky foods.
·Regularly monitor the status of the power chain to ensure no slack or stretching.

## [Contraindications]

Contraindicated for patients allergic to **latex or polyurethane materials**.
If any signs of hypersensitivity occur, discontinue use and seek medical attention.

## [Storage Conditions]

Store in a **clean, dark room** with a temperature range of **18~22℃**, free from corrosive gases and with good ventilation.

## [Shelf Life]

**Shelf life: 24 months** under proper storage conditions.
Do not use after the expiration date printed on the package.

## [Warranty]

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A **24-month warranty** is provided against **defects in materials or manufacturing** under proper storage and intended clinical use.

This warranty does **not cover misuse, improper handling, or non-clinical damage.**

## Other Elastomeric Products

### [Product Description]

**·Elastic Power Thread**



Elastic power threads are made from **urethane rubber**, providing consistent force in traction applications. These threads are used in rotation and movement of teeth.



**·Rotation Wedge**

Rotation wedges are made of **urethane rubber** and are used to correct tooth rotations by creating **slight over-correction** to aid in proper alignment.

**·Archwire Sleeve Protective Tubing**



Archwire sleeve protective tubing is made of **urethane rubber**, designed to cover the archwire, offering protection and reducing discomfort during orthodontic treatment.

### [Material Composition]

Made of **medical-grade polyurethane (TPU)**, non-toxic, and safe for intraoral use.

### [Size Range]

/

### [Intended Use]

**·Elastic Power Thread:** Used to apply force in rotations and tooth movement during orthodontic treatment.

**·Rotation Wedge:** Used to correct rotations in teeth by applying over-correction force.

**·Archwire Sleeve Protective Tubing:** Used to cover and protect the archwire during orthodontic treatment, reducing irritation to the oral cavity.

### [Instructions for Use]

**Elastic Power Thread**

**1. Disinfection** Disinfect the thread before use by soaking in **75% alcohol** for **20–30 minutes**.

**2. Placement** Make a knot around the bracket, then extend the thread to the archwire and make a knot to secure it. **Trim excess thread** to ensure the correct tension and minimize patient discomfort.

**3. Post-use** Dispose of used threads as **medical waste**; do not reuse.

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**Rotation Wedge**
**1. Selection** Select the appropriate wedge based on the rotation and desired correction.
**2. Placement** Place the wedge into the bracket slot to correct the rotation.
**3. Monitor** Monitor and adjust regularly to achieve proper alignment.

**Archwire Sleeve Protective Tubing**
**1. Selection** Select the appropriate size of the sleeve based on archwire diameter.
**2. Placement** Cut the tubing to the required length and slide it over the archwire.
**3. Post-use** Dispose of used protective tubing as **medical waste**.

## [Packaging]

Elastic Power Thread: 15 feet per roll.
Rotation Wedge: 40 pcs/pack (10 pcs/ stick*4 sticks/pack)
Archwire Sleeve Protective Tubing: 15 feet per roll.

## [Precautions]

·**For use only by qualified orthodontic professionals.**
·**Sterilize or disinfect before clinical application as appropriate.**
·**Single-use only — do not reuse or share between patients.**
·**Avoid excessive force** during placement to prevent damage to teeth or soft tissues.
·Instruct patients to **maintain oral hygiene** and avoid chewing hard or sticky foods.
·Regularly monitor the status of the power chain to ensure no slack or stretching.

## [Contraindications]

Contraindicated for patients allergic to **latex** or **urethane rubber**.
If any signs of hypersensitivity occur, discontinue use and seek medical attention.

## [Storage Conditions]

Store in a **clean, dry, and well-ventilated room** with **relative humidity ≤ 80%**, away from sunlight, heat sources, and corrosive gases.

## [Shelf Life]

**Shelf life: 3 years** under proper storage conditions.
Do not use after the expiration date printed on the package.

## [Warranty]

A **36-month warranty** is provided against **defects in materials or manufacturing** under proper storage and intended clinical use.
This warranty does **not cover misuse, improper handling, or non-clinical damage.**

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