



rolyan[®]

for Hand Therapy.



Polyflex II™

Overview

Polyflex II™, the second iteration of Polyflex, is a polycaprolactone-based splinting material that offers a balanced combination of high conformability and low resistance to stretch. It provides outstanding natural drape — just less than Polyform — and ease of molding. This makes it an excellent choice for splints that require a precise fit. Although it has a low resistance to stretch, Polyflex II still has excellent strength, rigidity and flexibility when cooled.

Polyflex II has a water-based, non-stick coating, which prevents accidental bonding. It can be reheated and reshaped repeatedly, but once it has been stretched, it will not return to its original shape. Polyflex is non-toxic, latex-free and radiolucent.



Key material benefits

Polyflex II is the only Rolyan splint that is flexible enough when cooled to directly resist stress fatigue. It will resist the start and spread of cracks caused by high load flexing of the splint, making it the ideal choice for splints used in a heavy work environment.

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USA

Rolyan, where ingenuity and artistry go hand in hand.

Material characteristics

Handling

**Resistance to stretch: Minimum**

Stretches easily when heated. Use soft, gentle pressure to form a splint. Be careful not to allow material to stretch too much.

**Conformability: Maximum**

Easily conforms to surface contours and detail, reducing time to fabricate splint, and provides a precise fit for increased comfort and fewer pressure areas. High degree of drape.

**Memory: Minimum**

Ability to be reheated and reshaped but will not return to original shape.

**Bonding: Coated**

Create a temporary bond by pinching together heated material; however, it will come apart when cooled. Form a permanent bond by scrubbing off the coating or removing it with a bond solvent.

Physical

Colors: Assorted

White, beige or blue

Thickness: Assorted

Available in the following sheet thicknesses: 1/8" (3.2 mm), 1/16" (1.6 mm) and 3/32" (2.4 mm).

Perforations: Assorted

Available in 1 percent or solid material.

Appearance: Opaque when heated

Hardened splint

**Rigidity: Moderate (49.8 kpsi*)**

Retains shape without reinforcement.

**Refers to Young's Modulus testing value*

Surface: Smooth

Picks up fingerprints and markings if not properly handled.

Heating instructions

The recommended method for heating splinting materials is with hot water in a splint bath. A heat gun should only be used for spot-heating and adjustments.

| Material thickness | Approximate heating time | Water temperature: | | Working time |
|--------------------|--------------------------|--------------------|------------|--------------|
| | | Fahrenheit | Celsius | |
| 1/8" (3.2 mm) | 1 min | 150° to 160° | 65° to 70° | 3 to 5 min |
| 1/16" (1.6 mm) | 30 sec | 150° to 160° | 65° to 70° | 1 min |
| 3/32" (2.4 mm) | 30 to 45 sec | 150° to 160° | 65° to 70° | 2 to 3 min |

Note: Overheating splinting materials increases the draping/stretching characteristics; allow material to cool slightly before handling to avoid excess stretching.

Indications

Splinting materials are intended to be used for fabrication of custom-molded rigid splints, orthoses, and adaptive equipment.

Best uses include:

- Thumb splints
- Finger splints
- Hand splints
- Wrist splints
- Elbow splints
- Dynamic splints
- Neck collars
- Foot drop splints
- Carpal tunnel splints
- Pediatric splints
- Adaptive equipment
- Fracture braces
- Splints for arthritis
- Knee splints
- Flexor tendon repair splints

Care and cleaning

Store at temperatures between 40° and 90°F (4° and 32°C), and less than 65 percent relative humidity. Avoid prolonged exposure to light, especially ultraviolet. Avoid exposure to corrosive and ethylene oxide fumes.

Formed splints will lose their shape in temperatures over 135°F (57°C) and should be kept away from sources of heat such as ovens, hot water and car windows.

Clean splint with soap and lukewarm water. Allow splint and straps to dry thoroughly before reapplication.

Precautions for finished orthoses

Splint adjustments are to be made only by a health care professional, who is responsible for providing wearing instructions and precautions to other practitioners, care providers and the patient. If unusual swelling, skin discoloration or discomfort occurs, discontinue use and consult a health care professional.

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