

Klarity Splinting Materials

General Description

Klarity® low temperature thermoplastic splinting materials are ideal for fabrication of custom-molded splints, orthoses and adaptive equipment.

Precautions

To be used under the guidance of a qualified medical professional.

INSTRUCTIONS FOR FABRICATION

Patterning

Patterns can be drawn on all splinting materials directly.

Cutting

Light splinting materials can be cut with scissors directly. For thicker material it may require a heavy-duty shears, or scoring with a utility knife and bending at the score mark first, then cut and trim with a knife or scissors. Warming the material slightly will aid in the ease of cutting.

Heating

For specific heating information for each material, see “Fabrication Guide for Klarity Splinting Materials” below.

All splinting materials can be heated in water or dry heater. Use a heat gun for spot-heating and making adjustments. Note that dry heating makes the materials hotter; check the temperature carefully before applying it to the patient.

Note: Use dry heating (oven) to soften Komfort™ Composite Thermoplastic. It also can be heated in water if the material is wrapped with thick vacuum plastic bag.

Forming

The splinting material should be heated in water or dry heater as indicated in the fabrication guide chart after the pattern is made. The material should feel soft when removed from the water or dry heater. Check the temperature of the material before beginning to fabricate the splint on the patient. While materials with minimum and moderate RTS require smooth strokes, materials with maximum RTS require firm pressure to form a splint.

Cooling

Cold water, cold packs, cold spray, or cold wraps can be used to speed the cooling process.

Finishing & Adjustments

Change in contour design of the splint can be accomplished easily by using a heat gun or pouring hot water over it. For rough edges of the material, heat it for a few seconds and then smooth them using finger tips or the palm of the hand.

RTS, Memory & Bonding

See “Fabrication Guide for Klarity Splinting Materials” below.

Care & Cleaning

Clean with mild soap and lukewarm water. A fabricated splint will lose its shape in temperature over 51°C (123°F). Keep the materials away from heat sources such as a hot car, open flames, radiator ovens.

FABRICATION GUIDE FOR KLARITY SPLINTING MATERIALS

Name	Heating Temperature	Approximate Heating Time	Approximate Working Time	Approximate Hardening Time	RTS	Memory	Bonding
Contour Pro	65-72°C (150-162°F)	2.4 mm: 1 min. ⁶ 3.2 mm: 2 min. ⁶	1.5-2 min. ⁶	4-6 min. ⁶	Minimum	Moderate	Traditional coating ¹
Klarity S	65-72°C (150-162°F)	1.6 mm: 45 sec. ⁷ 2.0 & 2.4 mm: 1 min. ⁶ 3.2 mm: 2 min. ⁶	1.5-2 min. ⁶	3-5 min. ⁶	Moderate	Full	Thin coating ²
Klarity	65-72°C (150-162°F)	1.6 mm: 45 sec. ⁷ 2.4 mm: 1 min. ⁵ 3.2 mm: 2 min. ⁵	1.5-2 min. ⁶	3-5 min. ⁶	Moderate	Full	Traditional coating ¹
Contour Blend	65-72°C (150-162°F)	2.4 mm: 1 min. ⁶ 3.2 mm: 2 min. ⁶	2-2.5 min. ⁶	4-6 min. ⁶	Moderate	Moderate	Traditional coating ¹
Contour Colors	65-72°C (150-162°F)	3.2 mm: 2 min. ⁶	2-2.5 min. ⁶	4-6 min. ⁶	Moderate	Moderate	Traditional coating ¹
Klarity NS	65-72°C (150-162°F)	1.6 mm: 45 sec. ⁷ 2.0 & 2.4 mm: 1 min. ⁶ 3.2 mm: 2 min. ⁶	1.5-2 min. ⁶	3-5 min. ⁶	Moderate	Full	Non-sticky coating ³
Klarity Stiff	65-72°C (150-162°F)	3.2 mm: 2 min. ⁶	1.5-2 min. ⁶	3-5 min. ⁶	Maximum	Full	Non-sticky coating ³
Super Maxi	65-72°C (150-162°F)	3.2 mm: 2 min. ⁶	1 min. ⁶	2-4 min. ⁶	Maximum	High	Traditional coating ¹
Komfort Composite	65-72°C (150-162°F) in water 65-72°C (150-162°F) in oven	3.2 mm: 5-8 min. ⁶	1.5-2 min. ⁶	8-10 min. ⁶	Maximum	High	N/A
Easy Fit	65-72°C (150-162°F)	2.4 mm: 1 min. ⁶ 3.2 mm: 2 min. ⁶	1.5-2 min. ⁶	4-6 min. ⁶	Maximum	Moderate	Uncoated ⁴
Klarity SOLO	65-72°C (150-162°F)	3.2 mm: 2 min. ⁶	1.5-2 min. ⁶	5-7 min. ⁶	Maximum	Moderate	* UNCOATED ⁵
Klarity SOLO Plus	65-72°C (150-162°F)	3.2 mm: 2 min. ⁶	1.5-2 min. ⁶	5-7 min. ⁶	Maximum	Moderate	Uncoated ⁴

¹ Traditional coating allows material to bond temporarily when warm. Once cool the bonding is not permanent.

² Thin coating makes the material bonds permanently when heated surfaces are pinched together. Dry heating makes the bonding especially strong.

³ Non-sticky coating may be removed to create a permanent bonding. It is easy to handle and easy to clean (less porous).

⁴ Uncoated materials will bond to themselves permanently.

⁵ Klarity SOLO is uncoated. However, it allows material to bond temporarily when warm. Once cool the bonding is not permanent.

⁶ minute or minutes

⁷ seconds



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