



**ORFIT Industries**

Vosveld 9a  
2110 Wijnegem, Belgium

## ORFICAST® MORE THERMOPLASTIC TAPE

### INSTRUCTIONS FOR USE



Activation temperature:  
65°C (149°F)



Minimum  
activation time:  
90 seconds



Maximum  
activation time:  
30 minutes



Drying time:  
max. 10 seconds



Moulding time:  
2 minutes



Hardening time:  
minimum 5 minutes



## A. GENERAL PRODUCT INFORMATION

ORFICAST MORE Thermoplastic Tape is a low temperature thermoplastic knitted textile material for the fabrication of splints and casts for immobilization.

ORFICAST MORE Thermoplastic Tape is applied directly to the patient after it is activated.

**! ORFICAST MORE Thermoplastic Tape is not suitable for internal use. It may not be used on open wounds or in the mouth.**

## B. PRODUCT RANGE

ORFICAST MORE Thermoplastic Tape is available in rolls of  $\pm 300$  cm length, widths of 6, 12 and 15 cm in 2 colours. The thickness of the material is 2.6 mm (1/10").

The density of the material is about 40 g/m.

|              | Art. no. | Description                     | Colour |
|--------------|----------|---------------------------------|--------|
| width: 6 cm  | 4035     | 1 roll – width: 6 cm            | Blue   |
|              | 4035Z    | 1 roll – width: 6 cm            | Black  |
|              | 4036     | Box with 6 rolls – width: 6 cm  | Blue   |
|              | 4036Z    | Box with 6 rolls – width: 6 cm  | Black  |
| width: 12 cm | 4037     | 1 roll – width: 12 cm           | Blue   |
|              | 4037Z    | 1 roll – width: 12 cm           | Black  |
|              | 4038     | Box with 6 rolls – width: 12 cm | Blue   |
|              | 4038Z    | Box with 6 rolls – width: 12 cm | Black  |
| width: 15 cm | 4039     | 1 roll – width: 15 cm           | Blue   |
|              | 4039Z    | 1 roll – width: 15 cm           | Black  |
|              | 4040     | Box with 6 rolls – width: 15 cm | Blue   |
|              | 4040Z    | Box with 6 rolls – width: 15 cm | Black  |

## C. PRECAUTIONS BEFORE USE

1. The workplace must be well-ventilated to avoid overheating.
2. The necessary tools should in no way put the patient at risk.
3. Encourage the patient to assume a comfortable position and ensure that you yourself are in an easy working position.

**! 4. Make sure that the temperature of the activated ORFICAST MORE Thermoplastic Tape will not burn the patient.**

## D. ACTIVATION TECHNIQUE

1. ORFICAST MORE Thermoplastic Tape is softened by heating at a minimum temperature of 65°C (149°F). Possible activation sources are: Suspan water bath, dry heater, heating plate, microwave oven and heat gun.

The activation time depends on the heat source and the product size, and varies from 30 seconds to 5 minutes:

1. Water bath: 65°C (149°F): 90 sec.
  2. Dry heater or heating plate: 2-5 min.
  3. Microwave oven: 500W: 2-2½ min. (first heat sufficient amount of water in the microwave and afterwards activate the ORFICAST MORE Thermoplastic Tape by steeping it into this hot water)
  4. Heat gun: 4-8 seconds: only use the heat gun to locally (re)activate the ORFICAST MORE Thermoplastic Tape in order to make small corrections to the shape of the cast or to attach hook and loop tape. The heat gun is not meant to be used as heat source to activate the total length of the ORFICAST MORE Thermoplastic Tape before moulding it onto the patient.
2. When activated on a heating plate, ORFICAST MORE Thermoplastic Tape should be placed on silicone or Teflon sheet to prevent it from adhering to the plate. When using a heat gun, it should be set at a minimum airflow and the temperature should not exceed 250°C (482°F) to avoid breakdown of the material.
- ! 3. Be careful: temperatures of 65°C (149°F) or more can also be reached in the patient's daily life. Think of a closed car in the summer, the surface of a hot radiator, a sauna or the proximity of an open fireplace.**
4. Temperatures up to a maximum of 100°C (212°F) do not damage ORFICAST MORE Thermoplastic Tape, but are not user-friendly. Higher temperatures are allowed on the condition that the activation time is reduced accordingly.
- ! 5. Never use an open flame to activate ORFICAST MORE Thermoplastic Tape.**

## E. WORKING PROPERTIES

### How to apply ?

1. Various application techniques are possible:
  - Wrapping technique: identical to the application of plaster bandages.
  - Strips can be sewn together to make specific patterns.
  - Manual moulding of the ORFICAST MORE Thermoplastic Tape strip [or several layers together].

Use the stretch and elastic properties of ORFICAST MORE Thermoplastic Tape but avoid compression of the skin.
2. ORFICAST MORE Thermoplastic Tape sticks to itself and to all porous surfaces very easily. In case of accidental bonding, keep it activated and gently pull the layers apart. To obtain a homogeneous cast, ORFICAST MORE Thermoplastic Tape must be applied while hot. When completed, firmly press to enhance adhesion of all layers. Straps, splint accessories or reinforcements can also be adhered to the cast using the self-adhesive properties of ORFICAST MORE Thermoplastic Tape. First reactivate the ORFICAST MORE splint locally using the heat gun until the material becomes shiny and sticky. Afterwards glue the desired materials onto the surface of the splint and press firmly to secure the bonding.
3. ORFICAST MORE Thermoplastic Tape has perfect memory. The material can be reactivated and unwrapped if not totally pressed together. This allows you to make small corrections to the splint or cast if necessary.

## F. FINISHING

**! In order to assure sufficient bonding of different layers, the ORFICAST MORE Thermoplastic Tape surface should BRIEFLY be DRY heated with a heat gun.**

1. Do not remove ORFICAST MORE Thermoplastic Tape from the patient before the cast is sufficiently hard.
2. If the cast must be cut to be removed, use a suitable pair of bandage scissors and do not wait until the product is completely hard.

3. The cooling time can be shortened by means of cold air, a cold bandage or a cold spray.

## G. MAINTENANCE AND WASTE MANAGEMENT

To clean the ORFICAST MORE Thermoplastic Tape cast, use lukewarm water and soap. Rinse locally and dry with a hairdryer on a cool setting to avoid prolonged skin maceration. Do not put the entire splint or cast into water as this might cause loss of the shape.

### **! Never use solvents, avoid acid detergents.**

Sterilization of ORFICAST MORE Thermoplastic Tape splints and removable casts in an autoclave is impossible.

ORFICAST MORE Thermoplastic Tape can be disinfected with alcohol, quaternary ammonium or a solution of commercial disinfecting soaps (HAC®, Sterilium®, etc.). Rinse well after treatment. After use, a splint can be disposed of with normal household waste without harming the environment. ORFICAST MORE Thermoplastic Tape is biodegradable.

## H. ADVICE FOR THE PATIENT

### **! Give the patient sufficient information about the exact use and maintenance of the cast or splint and about the possible constraints.**

## I. STORAGE

- It is advised to store ORFICAST MORE Thermoplastic Tape in a dark, cool, dry place at a temperature of min. 10°C (50°F) and max. 30°C (86°F) and in the original packaging.
- Once removed from the packaging, the left-over material should be stored back in the packaging to avoid biodegradation.

Low temperature thermoplastics can only be kept for a limited period of time and must be protected as much as possible from light, heat and humidity. The material ages in relation to storage circumstances.

## J. GENERAL SAFETY ADVICES

- ! \* ORFICAST MORE Thermoplastic Tape is not suitable for internal use. It may not be used on open wounds or in the mouth.**
- ! \* Never use an open flame to activate ORFICAST MORE Thermoplastic Tape.**
- ! \* ORFICAST MORE Thermoplastic Tape may only be used by qualified health professionals for the fabrication of casts, and splints.**

## K. ADDITIONAL INFORMATION

For additional information such as distributor contact information, product brochures, Safety Data Sheets and regulatory information, please visit our website [www.orfit.com](http://www.orfit.com).

The instructions were written in accordance with the European Directive 93/42/EEC for Medical Devices.  
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