

ORFIT® STRIPS 2.0 mm (1/12")

Thickness	mm (inches)	2.0 (1/12)
Perforation	% (type)	0 (non perfo)

Thermoforming conditions

Optimum activation temperature (in water bath)	°C (°F)	65 (149)
Activation time (in water bath)	minutes	3 - 4
Transparent when activated		yes
Working time	minutes	1 ½ - 2
Hardening time	minutes	5 ½ - 6
Time to completion	minutes	15 – 16
Resistance to stretch		moderate
Drape		high
Memory (after 200 % elongation)		full
Maximum elongation when activated	%	2000
Memory (after maximum elongation)		full
Sticks to itself when activated and wet		no
Sticks to itself when activated, after drying		temporarily
Adhesion (velcro strip) using heat gun		yes

Mechanical properties at 21°C

Flexural modulus	MPa	450
Elastic modulus	MPa	250
Tensile strength	MPa	19.0
Strain at break	%	no break

General properties

Density	g cm ⁻³	1.14
Hardness (shore D)		59
Surface feeling		smooth
Color		gold / sonic silver
Odor		none
Fatigue	cycles	> 10000
Biocompatible		yes

ORFIT® STRIPS 3.4 mm (1/8")

Thickness	mm (inches)	3.4 (1/8)
Perforation	% (type)	0 (non perfo)

Thermoforming conditions

Optimum activation temperature (in water bath)	°C (°F)	65 (149)
Activation time (in water bath)	minutes	3 - 4
Transparent when activated		yes
Working time	minutes	3 - 3 ½
Hardening time	minutes	8 - 9
Time to completion	minutes	20 - 21
Resistance to stretch		moderate
Drape		high
Memory (after 200 % elongation)		high
Maximum elongation when activated	%	2500
Memory (after maximum elongation)		high
Sticks to itself when activated and wet		no
Sticks to itself when activated, after drying		temporarily
Adhesion (velcro strip) using heat gun		yes

Mechanical properties at 21°C

Flexural modulus	MPa	450
Elastic modulus	MPa	250
Tensile strength	MPa	18.5
Strain at break	%	no break

General properties

Density	g cm ⁻³	1.14
Hardness (shore D)		60
Surface feeling		smooth
Color		atomic blue / gold
Odor		none
Fatigue	cycles	> 10000
Biocompatible		yes

INFORMATION

The hardening time indicates the time period during which the material remains flexible, but no longer mouldable.

The time to completion indicates the length of time until the orthosis is finished and can be worn by the patient.

The memory indicates the ability of the material to regain its original shape after reheating.

The flexural modulus indicates the resistance of the material to a force causing it to bend.

The elastic modulus defines the ratio of the applied tensile stress to the change in shape of the material.

The tensile strength is the pulling force required to break the material.

The strain at break is the length increase of the material when stretched until failure.

The hardness indicates the resistance of the material to compression.

Fatigue indicates the minimum number of stress cycles the material sustains when bending over 90 degrees without failure.

The biocompatibility is studied according the guidelines of the International Organization for Standardization 10993 – Biological Evaluation of Medical Devices:

- Primary skin irritation study.
- Delayed dermal contact sensitization study.
- Cytotoxicity study.

Note:

Although the information in this publication is believed to be accurate and reliable, the data shown are for guidance only. Orfit Industries gives no guarantees about the results and assumes no liability in connection with them. The properties reported here are intended primarily to facilitate comparison among Orfit products. Standard testing methods often allow alternative measuring methods. Therefore, data from other sheet manufacturers may not be directly comparable. For additional information, please contact Orfit Industries.



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