

ORFIZIP[®] 2.0 mm (1/12")

Thickness	mm (inches)	2.0 (1/12)	2.0 (1/12)	2.0 (1/12)
Perforation	% (type)	0 (non perfo)	3.5 (mini)	25 (maxi)
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hermoforming conditions				
Optimum activation temperature (in water bath)	°C (°F)	65 (149)	65 (149)	65 (149)
Activation time (in water bath)	minutes	3 - 4	3 – 4	3 – 4
Transparent when activated		yes	yes	yes
Working time	minutes	1 ¼ - 1 ¾	1 – 1 ½	1-1½
Hardening time	minutes	6 - 6 ½	4 ½ - 5	2 ½ - 3
Time to completion	minutes	19 - 20	18 - 19	13 – 14
Resistance to stretch		moderate	moderate	moderate
Drape		high	high	high
Memory (after 200 % elongation)		full	full	full
Maximum elongation when activated	%	1250	1250	1125
Memory (after maximum elongation)		full	full	full
Sticks to itself when activated and wet		yes	yes	yes
Sticks to itself when activated, after drying		reliable under high	reliable under	reliable und
		stress	high stress	high stress
Adhesion (velcro strip) using heat gun		yes	yes	yes
/lechanical properties at 21°C				
Flexural modulus	MPa	500	500	300
Elastic modulus	MPa	300	230	170
Tensile strength	MPa	21.0	15.0	10.5
Strain at break	%	no break	90	no break
ieneral properties				
Density	g.cm ⁻³	1.13	1.13	1.13
Hardness (shore D)		60	60	60
Surface feeling		smooth	smooth	smoot
Color		skin	skin	skin
Odor		none	none	none
Fatigue	cycles	n.a.	n.a.	n.a.

All tests are performed without textile.



ORFIZIP[®] 3.0 mm (1/8")

Thickness	mm (inches)	3.0 (1/8)	3.0 (1/8)
Perforation	% (type)	0 (non perfo)	3.5 (mini)
nermoforming conditions			
Optimum activation temperature (in water bath)	°C (°F)	65 (149)	65 (149)
Activation time (in water bath)	minutes	3 - 4	3 – 4
Transparent when activated		yes	yes
Working time	minutes	2 – 2 ½	1 ¾ - 2 ¼
Hardening time	minutes	7 ½ - 8	6 ½ - 7
Fime to completion	Minutes	21 - 22	21 - 22
Resistance to stretch		moderate	moderate
Drape		high	high
Memory (after 200 % elongation)		full	full
Maximum elongation when activated	%	1400	1575
Memory (after maximum elongation)		full	full
Sticks to itself when activated and wet		yes	yes
ticks to itself when activated, after drying		reliable under high	reliable under
		stress	high stress
Adhesion (velcro strip) using heat gun		yes	yes
echanical properties at 21°C			
Elexural modulus	MPa	500	500
lastic modulus	MPa	300	275
ensile strength	MPa	22.5	16.5
train at break	%	290	105
neral properties			
Density	g.cm ⁻³	1.13	1.13
Hardness (shore D)	0 -	60	60
urface feeling		smooth	smooth
olor		skin	skin
		none	none
)dor			
Odor Fatigue	cycles	n.a.	n.a.

All tests are performed without textile.



TECHNICAL DATA SHEET

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.
- o 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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LAST UPDATE: 08/09/2016