

ORFITRANS™

Whether you want a stiff, soft, extra soft or supra soft sheet material for prosthetic sockets, we supply it !



EXTRA SOFT BEIGE



EXTRA SOFT SILICONE



EXTRA SOFT



STIFF



SUPRA SOFT



SOFT



ORFITRANS™

The ORFITRANS™ product range consists of 6 semi-transparent materials in different stiffnesses/softnesses that are suitable for the production of prosthetic stump sockets.

The orthopaedic technician will choose the most suitable material for the application.

ENVIRONMENTAL ASPECTS

- Recyclable material
- Classic waste disposal possible without negative effects on the environment

PROPERTIES

STIFF

- Styrene based
- Clear
- High stiffness
- High impact resistance
- High fatigue resistance
- Activation temperature: 170°C (340°F)

SOFT

- Ionomer based
- Semi-transparent
- Flexible but tough
- High fatigue resistance
- High mouldability at relatively low activation temperature: 150°C (300°F)

EXTRA SOFT

- EVA based
- Semi-transparent
- Very flexible
- Excellent transparency
- Superb forming properties
- Activation temperature: 150°C (300°F)

EXTRA SOFT BEIGE

- EVA based
- Very flexible
- Superb forming properties
- Activation temperature: 150°C (300°F)

EXTRA SOFT SILICONE

- EVA based
- Opaque
- Very flexible
- Very soft touch
- Activation temperature: 150°C (300°F)

SUPRA SOFT

- EVA based
- Semi-transparent
- The softest sheet material available
- Optimum comfort for the patient
- Extremely high flexibility
- Excellent clarity
- Very soft surface
- Activation temperature: 150°C (300°F)

MAIN APPLICATIONS

ORFITRANS™ STIFF:

transparent rigid check sockets

ORFITRANS™ SOFT:

prosthetic stump sockets with medium flexibility

ORFITRANS™ EXTRA SOFT:

highly flexible prosthetic sockets

ORFITRANS™ EXTRA SOFT BEIGE:

highly flexible prosthetic sockets in a beige color for esthetic reasons

ORFITRANS™ EXTRA SOFT SILICONE:

highly flexible with very smooth touch for prosthetic sockets

ORFITRANS™ SUPRA SOFT: extremely flexible prosthetic sockets

PRODUCT RANGE

ORFITRANS™ Stiff			sheet material	
Thickness (mm)	Sizes 400 mm x 400 mm	800 mm x 1200 mm		
8	37ST/4480	37ST/81280		
10	37ST/44100	37ST/812100		
12	37ST/44120	37ST/812120		
15	37ST/44150	37ST/812150		
ORFITRANS™ Soft				
	400 mm x 400 mm	800 mm x 1200 mm		
4,7	37SU/4447	37SU/81247		
6,3	37SU/4463	37SU/81263		
8,5	37SU/4485	37SU/81285		
11,5	37SU/44115	37SU/812115		
ORFITRANS™ Extra Soft				
	400 mm x 400 mm	800 mm x 1200 mm		
9	37SS62/4490	37SS62/81290		
12	37SS62/44120	37SS62/812120		
ORFITRANS™ Extra Soft Beige				
	400 mm x 400 mm	800 mm x 1200 mm		
6	37SS62/4460B	37SS62/81260B		
8	37SS62/4480B	37SS62/81280B		
10	37SS62/44100B	37SS62/812100B		
12	37SS62/44120B	37SS62/812120B		
ORFITRANS™ Extra Soft with silicone				
	400 mm x 400 mm	800 mm x 1200 mm		
6	37SIL/4460	37SIL/81260		
9	37SIL/4490	37SIL/81290		
12	37SIL/44120	37SIL/812120		
ORFITRANS™ Supra Soft				
	400 mm x 400 mm			
10	37SS32/44100			
12	37SS32/44120			
15	37SS32/44150			

PROCESSING CHARACTERISTICS

ORFITRANS™ will only give the best results when used under the conditions described by ORFIT Industries in the application procedure. This information is readily available from your distributor and from ORFIT Industries.

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Listed with



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ORFITRANS™

EXTRA SOFT BEIGE

Thermoforming conditions

Activation temperature	150 °C
Activation time - sheet thickness 6 mm	11 min
Activation time - sheet thickness 8 mm	17 min
Activation time - sheet thickness 10 mm	18 min
Activation time - sheet thickness 12 mm	21 min
Maximum shrinkage during activation	3.2 %
Maximum thermal shrinkage during cooling ..	4.9 %

Mechanical properties at 21°C

Flexural modulus	75 MPa
Aging: reduction of flexural modulus	
after UV-lighting for 210 h	18.3 %
Elastic modulus	75 MPa
Tensile strength	24 MPa
Strain at break	800 %
Shore D hardness	43
Impact resistance	no break

General properties

Density	0.94 g. cm ³
Degradation temperature	200 °C
Color	beige
Odor	acid smell
Biocompatible	yes



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ORFITRANS™

EXTRA SOFT SILICONE

Thermoforming conditions

Activation temperature 150 °C
Activation time - sheet thickness 6 mm 9 min
Activation time - sheet thickness 9 mm 11 min
Activation time - sheet thickness 12 mm 14 min
Maximum shrinkage during activation 3.2 %
Maximum thermal shrinkage during cooling .. 1.6 %

Mechanical properties at 21°C

Flexural modulus 30 MPa
Aging: reduction of flexural modulus
after UV-lighting / %
Elastic modulus 27 MPa
Tensile strength 5.8 MPa
Strain at break 800 %
Shore D hardness 33
Impact resistance no break

General properties

Density 0.95 g. cm³
Degradation temperature 230 °C
Color white
Odor none
Biocompatible yes



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ORFITRANS™

EXTRA SOFT

Thermoforming conditions

Activation temperature	150 °C
Activation time - sheet thickness 9 mm	11 min
Activation time - sheet thickness 12 mm	14 min
Maximum shrinkage during activation	3.2 %
Maximum thermal shrinkage during cooling ..	1.6 %

Mechanical properties at 21°C

Flexural modulus	30 MPa
Aging: reduction of flexural modulus	
after UV-lighting for 210 h	11.1 %
Elastic modulus	26 MPa
Tensile strength	10 MPa
Strain at break	800 %
Shore D hardness	33
Impact resistance	no break

General properties

Density	0.95 g. cm ³
Degradation temperature	230 °C
Color	semi-transparent
Odor	acid smell
Biocompatible	yes



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ORFITRANS™

STIFF

Thermoforming conditions

Activation temperature	170 °C
Activation time - sheet thickness 8 mm	20 min
Activation time - sheet thickness 10 mm	25 min
Activation time - sheet thickness 12 mm	28 min
Activation time - sheet thickness 15 mm	40 min
Maximum shrinkage during activation	3.5 %
Maximum thermal shrinkage during cooling ..	0.8 %

Mechanical properties at 21°C

Flexural modulus	1150 MPa
Aging: reduction of flexural modulus	
after UV-lighting for 210 h	0.7 %
Elastic modulus	1300 MPa
Tensile strength	26 MPa
Strain at break	250 %
Shore D hardness	68
Impact resistance	no break

General properties

Density	1.01 g. cm ³
Degradation temperature	300 °C
Color	transparent
Odor	none
Biocompatible	yes



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ORFITRANS™

SUPRA SOFT

Thermoforming conditions

Activation temperature	150 °C
Activation time - sheet thickness 10 mm	14 min
Activation time - sheet thickness 12 mm	18 min
Activation time - sheet thickness 15 mm	22 min
Maximum shrinkage during activation	3.2 %
Maximum thermal shrinkage during cooling ..	2.5 %

Mechanical properties at 21°C

Flexural modulus	20 MPa
Aging: reduction of flexural modulus	
after UV-lighting for 210 h	19.8 %
Elastic modulus	19 MPa
Tensile strength	5.3 MPa
Strain at break	> 100 %
Shore D hardness	30
Impact resistance	no break

General properties

Density	0.95 g. cm ³
Degradation temperature	300 °C
Color	semi-transparent
Odor	acid smell
Biocompatible	yes



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ORFITRANS™

SOFT

Thermoforming conditions

Activation temperature	150 °C
Activation time - sheet thickness 4,7 mm	12 min
Activation time - sheet thickness 6,3 mm	16 min
Activation time - sheet thickness 8,5 mm	19 min
Activation time - sheet thickness 11,5 mm ...	25 min
Maximum shrinkage during activation	3.2 %
Maximum thermal shrinkage during cooling ..	4.1 %

Mechanical properties at 21°C

Flexural modulus	350 MPa
Aging: reduction of flexural modulus	
after UV-lighting for 210 h	9.2 %
Elastic modulus	230 MPa
Tensile strength	25 MPa
Strain at break	470 %
Shore D hardness	65
Impact resistance	no break

General properties

Density	0.95 g. cm ³
Degradation temperature	320 °C
Color	transparent
Odor	none
Biocompatible	yes



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