LAMINATE

DAW

FABRICATION MATERIALS

& FIXTURES

2000

SECTION 10

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10.2C TUFnClear [™]	٠	10.2B Rigiflex™	01
• 10.2D Thermics • • • • • • • • • • • • • • • • • • •	•	10.2C TUFnClear™	01
	•	10.2D Thermics	01

INDUSTRIES

DAW



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ALIGNMENT THE SCIENCE





The ePAD allows cost effective precise location of the Center of the Acetabulum in both Sagittal and Coronal Planes. By precisely locating the true point of origin of the Ground Reaction Force (GRF) while ensuring equal weight bearing the ePAD points out the true location of the Acetabulum.

Applying this knowledge together with advanced polycentric technology will provide Amputees with an efficient and secure anatomical gait.

ePAD: The Electronic Precision Alignment Device

What does it do?

For any force applied to the ground there is an equal and opposite force. This force is termed the Ground Reaction Force (GRF). In the case of the foot on the ground, it is the summation of all the forces applied by the foot to the ground. The GRF is a vector, it has a point of origin and a direction.

The ePAD Sensor Pad shows precisely where the "point of origin" of the GRF vector is located in Sagittal and Coronal Planes. In neutral Stance, when placed at the "point of origin" the vertical line produced by the self leveling laser goes through the exact location of the center of the acetabulum. It would be impossible to locate with precision without the ePAD. Efficient prosthetic alignment requires the proper positioning of the knee and ankle in relation to the center of the acetabulum.

The Weight Pad ensures even weight bearing on both legs, which is essential for an accurate assessment of the GRF Vector.









DGEL	
PRODUCT DESCRIPTION	STOCK #
DGEL Rigid Resin II (80%/20%)	DGEL-RR2*
DGEL Resin Promoter II	DGEL-RP2
DGEL Socket Edge Einisher	

*includes Promoter (DGEL-RP2) in separate bottle

GRAPH-LITE^{TT} TUBULAR BRAID

5 yards. or 25 yards.

PRODUCT DESCRIPTION	STOCK #
DGEL GRAPH-LITE	DGEL-TB4/TB5/TB6/TB7/
Tubular Braid 4", 5", 6", 7" or 8"	TB8
DGEL Fiber Beam Tubular Braid 5", 7" or 9"	DGEL-FIBTB5/FIBTB7
DGEL Felt, 5 yards	DGEL-FLT

- Half the resin double the strength
 - Ultra-safe
 - Ultra-lite, Ultra-strong, Ultra-thin
 - The "no smell" resin
 - Twice as strong as acrylic resin
 - "You can stand on it"
 - 38 million Modulus Fiber means ultra strong
 - Double lay-up is all you need
 - Available 4", 5", 6", 7"
 & 8" diameters fill all your lay-up needs
 - Ultra strong even for standard lamination lay-ups



Section 10.1A p.02

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Section 10.1A p.03



- Half the resin double the strength
- Ultra-safe
- Ultra-lite, Ultra-strong, Ultra-thin
- The "no smell" resin
- Twice as strong as acrylic resin
- "You can stand on it"

No other Resin/Carbon Braid System can ever come close to being able to create the strongest Lamination with such thin lay-ups. This new DGEL Resin II gives plenty of time to laminate (up to 45 minutes if needed) but also will fully cure within 2 hours — that means your patient will walk on it that quickly. Because of the thin lay-up, you are using less resin and less carbon for the ultimate ultra-light, ultra-strong lamination that saves you money!

NON-HAZARDOUS!

NO SMELL!

Easiest Lam. Ever!

HOW TO ORDER

Please see this Section p.02

Ultra-Light, Ultra-Strong Low Cost





Claim to fame

- 38 million Modulus Fiber means ultra strong
- 2 layers lay-up is all you need for 75% of your patients
- Double its strength yet when used in conjunction with DGEL Fiber Beam.
- Available in 4, 5, 6, 7, and 8 inch diameters to fill all your lay-up needs

Available in 5 yards or 25 yards

Feel the smoothness of the DGEL Carbon Braid, it feels like silk — this tells you that the DGEL Resin will soak right in without heavy stringing. Please notice that even after stretching the DGEL Tubular Braid the tight mesh does not open up and therefore even with only Two Layers, the lamination does not have any opened holes and is therefore as strong as laminations with 4 to 6 layers of Generic Braid — Do the math, it saves a lot of money!





Cost Effective, Ultimate Strength





Strength for the Price & Thi



T U B U L







For a socket

LAMINATION SYSTEM



Claim to fame

- The secret to the perfectly smooth Graphite socket edge
- Works on any composite material
- Easy instructions for quick results
- A few drops is all it takes
- Sure, guaranteed results



Prosthetic perfection is the result of a lot of applied knowledge and a few well kept secrets - this one is worth revealing! No more frustration and hard work to try to obtain that perfectly smooth socket edge - DGEL-EDGER is a quick, easy and sure thing.

HOW TO ORDER

Stock #: DGEL-EDGER





GENERIC

LAMINATION MATERIAL

Section 10.1B p.01



Section 10.1C p.01

LAMINATION SYSTEM

RECOMMENDED LAMINATION LAY-UPS

WHICH ADULT FUNCTIONAL LEVEL?

LEVEL 1	Fixed Cadence • Transfer on Level Surfaces • Household Ambulator
LEVEL 2	Transversing Low Level Barriers, Curbs, Stairs, Uneven Surfaces • Limited Community Ambulator
LEVEL 3	Variable Cadence • Transversing Environmental Barriers • Activity Demands Beyond Simple Locomotion
LEVEL 4	Exceeding Basic Ambulation Skills • High Impact, Stress or Energy Levels, Typical of Child

			DGEL	SYST	EM		DAV Compos	V Generic ite Lamina	tion
Activity Level	Patient Weight	Recommended Connectors	Lay-up with DGEL Tubular Braid	Resin Used DGEL-RR2	Approx. Final Socket Weight*		Lay-up with Generic Braid	Resin used DGEL-RR2	Approx. Final Socket Weight*
L E	36-54 kg (80-120 lb)	GUPA-MLAM RSC-TLAM GUPA-MLAMSTAR	Not Recommended	N/A	N/A		 (1) FTB-GENERIC (1) FTB-GENFIB (1) FTB-GENERIC 	150-200 g (5.3-7 oz)	357 g (12.7 oz)
V E	54-75 kg (120-165 lb)	GUPA-MLAM RSC-TLAM GUPA-MLAMSTAR	2 DGEL-TB	75-125 g (2.7-4.4 oz)	216 g (7.7 oz)		 FTB-GENERIC FTB-GENFIB FTB-GENERIC 	150-200 g (5.3-7 oz)	357 g (12.7 oz)
L S	75-100 kg (165-220 lb)	GUPT-MLAM TSC-BX RSC-TLAM	2 DGEL-TB	75-125 g (2.7-4.4 oz)	216 g (7.7 oz)		 (2) FTB-GENERIC (1) FTB-GENFIB (2) FTB-GENERIC 	175-225 g (6.2-8 oz)	509 g (18 oz)
1	100-113 kg (220-250 lb)	GUPT-MLAM TSC-BX RSC-TLAM	 DGEL-TB DGEL-FIBTB DGEL-TB 	100-150 g (3.5-5.3 oz)	348 g (12.3 oz)	,	(2) FTB-GENERIC(2) FTB-GENFIB(2) FTB-GENFIB	200-250 g (7-9 oz)	589 g (20.8 oz)
& 2	113 kg+ (250 lb+)	EXO-SKELETAL OR CALL TECH HOTLINE	(4) DGEL-TB	125-200 g (4.4-7 oz)	336 g (12 oz)		 ③ FTB-GENERIC ① FTB-GENFIB ③ FTB-GENERIC 	250-350 g (9-12.4 oz)	614 g (21.8 oz)

(1) = 1 layer, (2) = 2 layers, (3) = 3 layers, (4) = 4 layers

 $^{\star}\text{=}$ Socket weight based on an average weight patient with 20 cm (8 in) long socket.

	DGEL-TB	= DGEL Tubular Braid (Available in 3, 4, 5, 6, 7 & 8 in. wide)
DGEL	DGEL-FIBTB	= DGEL Tubular Fiber Beam Braid (Available in 5, 7 & 9 in. wide)
	DGEL-RR2	= DGEL Rigid Resin

For a perfectly smooth socket edge without carbon fibers sticking out: DGEL-EDGER (See Section 10.1A p.06)

1		FTB-GENERIC	= Generic Tubular Carbon Braid (Available in 4, 5 & 6 in. wide)
	GENERIC	FTB-GENFIB	= Generic Tubular Fiber Beam Braid (Available in 5 & 7 in. wide)
		DGEL-RR2	= DGEL Rigid Resin

NDUSTRIES

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Section 10.1C p.02

DAW Generic



BK RECOMMENDED LAMINATION LAY-UPS

DOEL OVOTEM

			DGELSTSTEM			Composite Lamination			
Activity Level	Patient Weight	Recommended Connectors	Lay-up with DGEL Tubular Braid	Resin Used DGEL-RR2	Approx. Final Socket Weight*		Lay-up with Generic Braid	Resin Used DGEL-RR2	Approx. Final Socket Weight*
L	36-54 kg (80-120 lb)	GUPA-MLAM GUPA-MLAMSTAR RSC-TLAM-P	② DGEL-TB	75-125 g (2.7-4.4 oz)	216 g (7.7 oz)		 (1) FTB-GENERIC (1) FTB-GENFIB (1) FTB-GENERIC 	150-200 g (5.3-7 oz)	357 g (12.7 oz)
E V	54-75 kg (120-165 lb)	GUPT-MLAMSLIDE GUPA-MLAMSTAR GUPT-MLAMSTAR	2 DGEL-TB	75-125 g (2.7-4.4 oz)	216 g (7.7 oz)		 ② FTB-GENERIC ① FTB-GENFIB ② FTB-GENFIB 	175-225 g (6.2-8 oz)	484 g (17.2 oz)
E	75-100 kg (165-220 lb)	GUPT-MLAMSLIDE GUPT-MLAM RSC-TLAM	 DGEL-TB DGELFIBTB DGEL-TB 	100-150 g (3.5-5.3 oz)	348 g (12.3 oz)		(2) FTB-GENERIC(2) FTB-GENFIB(2) FTB-GENERIC	200-250 g (7-9 oz)	589 g (20.8 oz)
L	100-113 kg (220-250 lb)	GUPT-MLAM TSC-BX RSC-TLAM	(4) DGEL-TB	125-200 g (4.4-7 oz)	336 g (12 oz)		 ③ FTB-GENERIC ① FTB-GENFIB ③ FTB-GENERIC 	250-350 g (9-12.4 oz)	614 g (21.8 oz)
3	113 kg+ (250 lb+)	EXO-SKELETAL OR CALL TECH HOTLINE	② DGEL-TB① DGELFIBTB③ DGEL-TB	150-200 g (5.3-7 oz)	451 g (16 oz)		 ③ FTB-GENERIC ② FTB-GENFIB ③ FTB-GENERIC 	275-375 g (9.8-13.3 oz)	669 g (23.7 oz)
L	36-54 kg (80-120 lb)	GUPT-MLAM GUPT-MLAMSLIDE RSC-TLAM-P	(2) DGEL-TB	75-125 g (2.7-4.4 oz)	216 g (7.7 oz)		 FTB-GENERIC FTB-GENFIB FTB-GENERIC 	150-200 g (5.3-7 oz)	357 g (12.7 oz)
E	54-75 kg (120-165 lb)	GUPT-MLAMSLIDE GUPA-MLAM RSC-TLAM	 DGEL-TB DGELFIBTB DGEL-TB 	100-150 g (3.5-5.3 oz)	348 g (12.3 oz)		 ② FTB-GENERIC ① FTB-GENFIB ② FTB-GENERIC 	175-225 g (6.2-8 oz)	509 g (18 oz)
V E	75-100 kg (165-220 lb)	GUPT-MLAMSLIDE GUPT-MLAM RSC-TLAM	(4) DGEL-TB	125-200 g (4.4-7 oz)	336 g (12 oz))		 ③ FTB-GENERIC ① FTB-GENFIB ③ FTB-GENERIC 	250-350 g (9-12.4 oz)	614 g (21.8 oz)
L	100-113 kg (220-250 lb)	GUPT-MLAMSLIDE GUPT-MLAM RSC-TLAM	(4) DGEL-TB	125-200 g (4.4-7 oz)	336 g (12 oz)		N/A	N/A	N/A
4	113 kg+ (250 lb+)	EXO-SKELETAL OR CALL TECH HOTLINE	2) DGEL-TB1) DGELFIBTB2) DGEL-TB	150-200 g (5.3-7 oz)	451 g (16 oz)		N/A	N/A	N/A

(1) = 1 layer, (2) = 2 layers, (3) = 3 layers, (4) = 4 layers

*= Socket weight based on an average weight patient with 20 cm (8 in) long socket.

	DGEL	DGEL-TB DGEL-FIBTB DGEL-RR2	 = DGEL Tubular Braid (Available in 3, 4, 5, 6, 7 & 8 in. wide) = DGEL Tubular Fiber Beam Braid (Available in 5, 7 & 9 in. wide) = DGEL Rigid Resin 	
For a	perfectly smoot	th socket edge w	vithout carbon fibers sticking out: DGEL-EDGER (See Section 10.1A p.06	5)



	FTB-GENERIC	= Generic Tubular Carbon Braid (Available in 4, 5 & 6 in. wide)
ENERIC	FTB-GENFIB	= Generic Tubular Fiber Beam Braid (Available in 5 & 7 in. wide)
	DGEL-RR2	= DGEL Rigid Resin

AK RECOMMENDED LAMINATION LAY-UPS

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LEVEL 1	Fixed Cadence • Transfer on Level Surfaces • Household Ambulator
LEVEL 2	Transversing Low Level Barriers, Curbs, Stairs, Uneven Surfaces • Limited Community Ambulator
LEVEL 3	Variable Cadence • Transversing Environmental Barriers • Activity Demands Beyond Simple Locomotion
LEVEL 4	Exceeding Basic Ambulation Skills • High Impact, Stress or Energy Levels, Typical of Child

	DGEL SYSTEM			DAV Compos	V Generic ite Lamina	ition		
Activity Level	Patient Weight	Recommended Connectors	Lay-up with DGEL Tubular Braid	Resin Used DGEL-RR2	Approx. Final Socket Weight*	Lay-up with Generic Braid	Resin Used DGEL-RR2	Approx. Final Socket Weight*
L	36-54 kg (80-120 lb)	RSC-TLAM TSC-A GUPS-FLAM3PRROT	(2) DGEL-TB	175-250 g (6.2-9 oz)	529 g (18.8 oz)	 (1) FTB-GENERIC (1) FTB-GENFIB (1) FTB-GENERIC 	275-325 g (9.8-11.5 oz)	605 g (21.5 oz)
	54-75 kg (120-165 lb)	RSC-TLAM TSC-A GUPS-FLAM3PRROT	 DGEL-TB DGEL-FIBTB DGEL-TB 	225-300 g (8-10.7 oz)	658 g (23.3 oz)	 (2) FTB-GENERIC (1) FTB-GENFIB (2) FTB-GENERIC 	325-400 g (11.5-14.2 oz)	875 g (31 oz)
L S	75-100 kg (165-220 lb)	RSC-TLAM TSC-A GUPS-FLAM3PRROT	 DGEL-TB DGEL-FIBTB DGEL-TB 	225-300 g (8-10.7 oz)	658 g (23.3 oz)	 ③ FTB-GENERIC ① FTB-GENFIB ③ FTB-GENERIC 	400-475 g (14.2-16.8 oz)	1,263 g (44.8 oz)
1	100-113 kg (220-250 lb)	TSC-A GUPS-FLAM3PRROT	① DGEL-TB	250-325 g (9-11.5 oz)	983 g (35 oz)	Not Recommended	N/A	N/A
& 2	113 kg+ (250 lb+)	EXO-SKELETAL OR CALL TECH HOTLINE	(4) DGEL-TB	250-325 g (9-11.5 oz)	983 g (35 oz)	Not Recommended	N/A	N/A

(1) = 1 layer, (2) = 2 layers, (3) = 3 layers, (4) = 4 layers

*= Socket weight based on an average weight patient with 20 cm (8 in) long socket.

	DGEL-TB	= DGEL Tubular Braid (Available in 3, 4, 5, 6, 7 & 8 in. wide)
DGEL	DGEL-FIBTB	= DGEL Tubular Fiber Beam Braid (Available in 5, 7 & 9 in. wide)
	DGEL-RR2	= DGEL Rigid Resin

For a perfectly smooth socket edge without carbon fibers sticking out: DGEL-EDGER (See Section 10.1A p.06)

GENERIC	FTB-GENERIC FTB-GENFIB	 Generic Tubular Carbon Braid (Available in 4, 5 & 6 in. wide) Generic Tubular Fiber Beam Braid (Available in 5 & 7 in. wide)
	DGEL-RR2	= DGEL Rigid Resin

INDUSTRIES



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RECOMMENDED LAMINATION LAY-UPS

DGEL SYSTEM			EM	DAW Generic Composite Lamination				
Activity Level	Patient Weight	Recommended Connectors	Lay-up with DGEL Tubular Braid	Resin Used DGEL-RR2	Approx. Final Socket Weight	Lay-up with Generic Braid	Resin Used DGEL-RR2	Approx. Final Socket Weight*
L	36-54 kg (80-120 lb)	RSC-TLAM TSC-A GUPS-FLAM3PRROT	2 DGEL-TB	175-250 g (6.2-9 oz)	529 g (18.8 oz)	 (2) FTB-GENERIC (1) FTB-GENFIB (2) FTB-GENERIC 	325-400 g (11.5-14.2 oz)	875 g (31 oz)
E	54-75 kg (120-165 lb)	RSC-TLAM TSC-A GUPS-FLAM3PRROT	 DGEL-TB DGELFIBTB DGEL-TB 	250-325 g (9-11.5 oz)	658 g (23.3 oz)	 ② FTB-GENERIC ② FTB-GENFIB ③ FTB-GENFIB 	400-475 g (14.2-16.8 oz)	950 g (33.7 oz)
E	75-100 kg (165-220 lb)	RSC-TLAM TSC-A GUPS-FLAM3PRROT	 DGEL-TB DGELFIBTB DGEL-TB 	250-325 g (9-11.5 oz)	658 g (23.3 oz)	 ③ FTB-GENERIC ② FTB-GENFIB ③ FTB-GENFIB 	450-525 g (16-18.6 oz)	1,026 g (37 oz)
L	100-113 kg (220-250 lb)	RSC-TLAM TSC-A	④ DGEL-TB	275-350 g (9.8-12.4 oz)	938 g (35 oz)	Not Recommended	N/A	N/A
3	113 kg+ (250 lb+)	EXO-SKELETAL OR CALL TECH HOTLINE	 ② DGEL-TB ① DGELFIBTB ③ DGEL-TB 	350-400 g (12.4-14.2 oz)	1,213 g (43 oz)	Not Recommended	N/A	N/A
L	36-54 kg (80-120 lb)	RSC-TLAM TSC-A GUPS-FLAM3PRROT	 DGEL-TB DGELFIBTB DGEL-TB 	250-325 g (9-11.5 oz)	658 g (23.3 oz)	 ③ FTB-GENERIC ② FTB-GENFIB ③ FTB-GENFIB 	450-525 g (16-18.6 oz)	1,026 g (37 oz)
Е	54-75 kg (120-165 lb)	RSC-TLAM TSC-A GUPS-FLAM3PRROT	 DGEL-TB DGELFIBTB DGEL-TB 	250-325 g (9-11.5 oz)	658 g (23.3 oz)	Not Recommended	N/A	N/A
F	75-100 kg (165-220 lb)	RSC-TLAM TSC-A GUPS-FLAM3PRROT	(4) DGEL-TB	275-350 g (9.8-12.4 oz)	938 g (33.3 oz)	Not Recommended	N/A	N/A
L	100-113 kg (220-250 lb)	TSC-A OR CALL TECH HOTLINE	(4) DGEL-TB	275-350 g (9.8-12.4 oz)	938 g (33.3 oz)	Not Recommended	N/A	N/A
4	113 kg+ (250 lb+)	EXO-SKELETAL OR CALL TECH HOTLINE	 ② DGEL-TB ① DGELFIBTB ③ DGEL-TB 	350-400 g (12.4-14.2 oz)	1,213 g (43 oz)	Not Recommended	N/A	N/A

(1) = 1 layer, (2) = 2 layers, (3) = 3 layers, (4) = 4 layers

*= Socket weight based on an average weight patient with 20 cm (8 in) long socket.

 DGEL
 TB
 = DGEL Tubular Braid (Available in 3, 4, 5, 6, 7 & 8 in. wide)

 DGEL-FIBTB
 = DGEL Tubular Fiber Beam Braid (Available in 5, 7 & 9 in. wide)

 DGEL-RR2
 = DGEL Rigid Resin

 For a perfectly smooth socket edge without carbon fibers sticking out: DGEL-EDGER (See Section 10.1A p.06)

 FTB-GENERIC = Generic Tubular Carbon Braid (Available in 4, 5 & 6 in. wide)

 FTB-GENERIC = Generic Tubular Carbon Braid (Available in 4, 5 & 6 in. wide)

 DGEL-RR2

 DGEL Rigid Resin

INDUSTRIES



THERMO FORMABLE NONPACKING

CUSHY SOFT



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Orders (800) 252-2828 · Technical Hotline (877) 242-2423 · www.daw-usa.com

Section 10.2A p.03

THERMICSTM

OPTIFLEXTM



Claim to fame

- Easy to pull even thickness
- Transparent
- Extremely easy to drape mold
- Guaranteed not to shrink
- Excellent for suction sockets
- Unparalleled flexibility
- Available in 6, 9 and 12mm

R_X INDICATIONS

• AMPUTEE REQUIRING THE ULTIMATE IN COMFORT AND FUNCTION WITH A FLEXIBLE INTERFACE SOCKET.



OPTIFlex2[™], a revolutionary new plastic for flexible sockets with a soft, human touch. Designed with a unique blend of silicone and polyethylene like materials, it is extremely easy to work with and guaranteed not to shrink. Its transparency allows for detailed evaluation of the fit and comfort of the most intricate sockets. Form-fitting comfort, with total flexibility makes OPTIFlex2[™] the ultimate choice for a custom-crafted prosthesis.

HOW TO ORDER



Please refer to Chart in section 10.2A pg. 04

OPTIFLEX [™]							
THICKNESS	SIZE	STOCK #	TEMP	TIME			
	\bigcirc \bigcirc		8	a Contraction of the second se			
6	15 ¹⁄₂ x 15 ¹⁄₂ in (39 x 39 cm)	PCT-6M1616	250°E (175°C)	7 Minutoo			
6mm	32 x 48 in (81 x 122 cm)	PCT-6M3248	350 F (175 C)	7 Minutes			
0	15 ¹ / ₂ x 15 ¹ / ₂ in (39 x 39 cm)	PCT-9M1616	250°E (175°C)	0 Minutoo			
9mm	32 x 48 in (81 x 122 cm)	PCT-9M3248	350°F (175 C)	9 Minutes			
10	15 ¹ / ₂ x 15 ¹ / ₂ in (39 x 39 cm)	PCT-12M1616		10 Minutes			
12mm	32 x 48 in (81 x 122 cm)	PCT-12M3248	350° ⊢ (175°C)	10 Minutes			

OPTIFLEX2 BLISTER FORMING TECHNIQUE

- 1. Place the positive model on a vacuum forming platform (PA-VP). DO NOT PLACE A NYLON STOCKINETTE OVER THE MODEL. THE OPTIFLEX2 WILL STICK TO ANY VACUUM INTERFACE.
- **2.** Place a piece of OPTIFLEX2 into a Vacuum Forming Frame (PA-VF) and place into an oven at 350°F. Monitor the drape carefully.
- **3.** Allow the OPTIFLEX2 to drape below the frame approximately 3/8 the length of the cast. Do not "flip" the frame after removing from oven.
- **4.** Position the frame over the positive model and SLOWLY pull the frame down the length of the model until it sets firmly against the vacuum platform (i.e. 80 seconds for a 14" pull).
- **5.** SLOWLY apply the vacuum to the model with the Thermics Vacuum Foot Valve (PA-VV). 6 to 10 inches Hg is recommended.

VACUUM FORMING THE OUTER FRAME

- **6.** Add a distal buildup on the end of the model with plaster, pelite or foam. Ensure the buildup is of correct length and alignment; trim the build-up so it matches the diameter of the thermoplastic connector (TSC-T, GUPT-TH4HROT, GUPT-TH4H9CM).
- 7. Pull a generously powdered OPTIFLATE[™] separating balloon over the entire OPTIFLEX2covered model. (DO NOT PULL A NYLON SEPARATING STOCKINETTE OVER THE OPTIFLEX2, IT WILL DAMAGE THE SOCKET.)*
- **8.** Place the thermoplastic connector on top of the distal buildup. Apply a thin nylon over the entire model and vacuum form the outer frame with THERMICS POLYPROPYLENE.

* Alternatively, make a plaster wrap of the OPTIFLEX2-covered model and fill to make a dummy model. After a buildup is created, the polypropylene frame may be vacuum formed using a nylon interface over the dummy model without using a latex separator.



THERMICS™

Rigiflex[™]

OPTIFLEX[™] WITH A LITTLE BIT OF RIGIDITY!



Claim to fame

- Guaranteed not to shrink
- Flexible with a little bit of rigidity
- Transparent
- Extremely easy to droop and mold
- Excellent for suction sockets
- Available in 12mm thickness

R_X INDICATIONS

• AMPUTEE REQUIRING THE ULTIMATE IN COMFORT AND FUNCTION WITH A FLEXIBLE INTERFACE SOCKET.



RIGIFLEX[™], a revolutionary new plastic for flexible sockets with a soft, human touch. Designed with a unique blend of silicone and polyethylene like materials, it is extremely easy to work with and guaranteed not to shrink. Its transparency allows for detailed evaluation of the fit and comfort of the most intricate sockets. Form-fitting comfort, with semi-flexibility makes RIGIFLEX[™] the ultimate choice for a custom-crafted prosthesis.



HOW TO ORDER

Please refer to Chart in section 10.2B pg. 02

THERMICS[™]



STOCK #	THICKNESS	SIZE	TEMP	TIME
PCT-R12M1616	12mm	15½ x 15½ in (39 X 39 cm)	350°F (175°C)	10 Minutes
PCT-R12M3248	12mm	12½ x 19 in (32 X 48 cm)	350°F (175°C)	10 Minutes

RIGIFLEX BLISTER FORMING TECHNIQUE

- 1. Place the positive model on a vacuum forming platform (PA-VP). DO NOT PLACE A NYLON STOCKINETTE OVER THE MODEL. THE RIGIFLEX WILL STICK TO ANY VACUUM INTERFACE.
- **2.** Place a piece of RIGIFLEX into a Vacuum Forming Frame (PA-VF) and place into an oven at 350°F. Monitor the drape carefully.
- **3.** Allow the RIGIFLEX to drape below the frame approximately 3/8 the length of the cast. Do not "flip" the frame after removing from oven.
- **4.** Position the frame over the positive model and SLOWLY pull the frame down the length of the model until it sets firmly against the vacuum platform (i.e. 80 seconds for a 14" pull).
- **5.** SLOWLY apply the vacuum to the model with the Thermics Vacuum Foot Valve (PA-VV). 6 to 10 inches Hg is recommended.

VACUUM FORMING THE OUTER FRAME

- 6. Add a distal buildup on the end of the model with plaster, pelite or foam. Ensure the buildup is of correct length and alignment; trim the build-up so it matches the diameter of the thermoplastic connector (TSC-T, GUPT-TH4HROT, GUPT-TH4H9CM).
- 7. Pull a generously powdered OPTIFLATE[™] separating balloon over the entire RIGIFLEX-covered model. (DO PULL A NYLON SEPARATING STOCKINETTE OVER THE RIGIFLEX, IT WILL DAMAGE THE SOCKET.)*
- **8.** Place the thermoplastic connector on top of the distal buildup. Apply a thin nylon over the entire model and vacuum form the outer frame with THERMICS POLYPROPYLENE.
 - * Alternatively, make a plaster wrap of the RIGIFLEX-covered model and fill to make a dummy model. After a buildup is created, the polypropylene frame may be vacuum formed using a nylon interface over the dummy model without using a latex separator.





VIRTUALLY

UNBREAKABLE

It's tough, The message Is clear, as glass

- The easiest pull ever!
 - Clear as glass Honest
 - Spot heat to modify (can even use a "torch lighter")
 - Tough as nails
 - No shrinkage

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TUF'N CLEAR[™]



STOCK #	THICKNESS	SIZE	TEMP	TIME
PCCLEAR-8M1616	8mm	15 ½ x 15 ½ in	330°F (165°C)	12 Minutes
PCCLEAR-1ØM1616	1Ømm	15 ½ x 15 ½ in	330°F (165°C)	13 Minutes
PCCLEAR-12M1616	12mm	15 ½ x 15 ½ in	330°F (165°C)	15 Minutes

TUF'nClear[™] TECHNIQUE

- **1**. Place the positive model on a vacuum forming platform (PA-VP).
- **2.** Place a piece of TUF'nClear into a Vacuum Forming Frame (PA-VF) and place into an oven at 350°F. Monitor the drape carefully.
- **3.** Allow the TUF'nClear to drape below the frame approximately ²/₃ the length of the socket. "Flip" the frame after removing from oven.
- **4.** Position the frame over the socket and SLOWLY pull the frame down the length of the model until it sets firmly against the vacuum platform
- **5.** SLOWLY apply the vacuum to the model with the Thermics Vacuum Foot Valve (PA-VV). 6 to 10 inches Hg is recommended.

VACUUM FORMING THE OUTER FRAME

- **6.** Add a distal buildup on the end of the model with plaster, pelite or foam. Ensure the buildup is of correct length and alignment; trim the build-up so it matches the diameter of the thermoplastic connector (TSC-T).
- 7. Pull an OPTIFLATE[™] separating balloon over the entire TUF'nClear -covered model. (DO NOT PULL A NYLON SEPARATING STOCKINETTE OVER THE TUF'nClear, IT WILL DAMAGE THE SOCKET.)*
- **8.** Place a thermoplastic connector (TSC-T) on top of the distal buildup. Apply a thin nylon over the entire model and vacuum form the outer frame with THERMICS POLYPROPYLENE.

*Alternatively, make a plaster wrap of the TUF'nClear covered model and fill to make a dummy model. After a buildup is created, the polypropylene frame may be vacuum formed using a nylon interface over the dummy model without using a latex separator.



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THERMICS[™]

Paro	THERMIC	S[™] POLYP	ROPYLEN	Ε
THICKNESS	16 in X 16 in	24 in X 48 in	32 in X 48 in	48 in X 96 in
1/8 in (.32 cm)	N/A	PP1/8-2448	PP1/8-3248	PP1/8-4896
3/16 in (.48 cm)	N/A	PP3/16-2448	PP3/16-3248	PP3/16-4896
1/4 in (.64 cm)	PP1/4-1616	PP1/4-2448	PP1/4-3248	PP1/4-4896
3/8 in (.95 cm)	PP3/8-1616	N/A	N/A	PP3/8-4896
1/2 in (1.27 cm)	PP1/2-1616	N/A	N/A	PP1/2-4896
5/8 in (1.58 cm)	PP5/8-1616	N/A	N/A	PP5/8-4896

	TEMPERATURE F°	
1/8 in (.32 cm)	330°	20
3/16 in (.48 cm)	330°	20
1/4 in (.64 cm)	340°	20

DROOP MOLDING						
THICKNESS						
1/4 in (.64 cm)	460°	8.5				
3/8 in (.95 cm)	460°	15				
1/2 in (1.27 cm)	460°	17				
5/8 in (1.58 cm)	460°	19.5				

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THERMICS" POLYETHELYNE

THICKNESS	16 in X 16 in	24 in X 48 in	32 in X 48 in	48 in X 96 in
1/8 in (.32 cm)	N/A	PE1/8-2448	PE1/8-3248	PE1/8-4896
3/16 in (.48 cm)	N/A	PE3/16-2448	PE3/16-3248	PE3/16-4896
1/4 in (.64 cm)	PE1/4-1616	PE1/4-2448	PE1/4-3248	PE1/4-4896
3/8 in (.95 cm)	PE3/8-1616	N/A	N/A	PP3/8-4896

SHEET MOLDING

	TEMPERATURE F°	
1/8 in (.32 cm)	300°	20
3/16 in (.48 cm)	300°	20
1/4 in (.64 cm)	310°	20

DROOP MOLDING

THICKNESS		
1/4 in (.64 cm)	397°	8
3/8 in (.95 cm)	410°	12



ALIGNMENT TOOL

ALIGNMENT TOOL



<u>Claim To Fame</u>

- Full slide adjustment up to 2 1/4 in (5.6 cm)
- Both AP and ML slide
- Standard Euro 4-hole pattern on top and bottom
- Can be used with the Ultra Pyramid (Male or Female)

No other tool offers this much slide adjustment in both AP and ML. Its relative light weight and thinness gives it great versatility, especially due to the threaded standard Euro 4-hole pattern on top and bottom. Its ease of use makes it the ultimate alignment tool when used in conjunction with the Ultra Pyramid System.







Stock Number			$\widehat{\P}$		(I)	≜	- <u></u>
GUPA-AP4H-ML4H	AA	THREADED (6 mm)	(4) THREADED (6 mm)	10³⁄4 oz (308 g)	11/8 in (2.9 cm)	200 lb (90 kg	9

HOW TO ORDER

Stock #: GUPA-AP4H-ML4H

		S	YM	в	ΟΙ	. Е	G	EI	N	DTM		
= Material	$\stackrel{\uparrow}{\leftarrow} \stackrel{\uparrow}{\underset{\downarrow}{\longrightarrow}} = Alignable$				ACHMENT M	ETHOD =	Bottom			= Dimensions	nat Pat	ximum ient Weight
	S = Angular Adj.	1 = 1 Cent 4 = Euro 4	er Hole 🥃 -Hole 🛛 Ø 30==	🖗 = Clamp = 30mm Pylo	a Male المستحد الم	Pyr. X° ∘Pyr. ∂A€	Lamination	astic	esive = Bolt Size	$ \begin{array}{c} $	S = 80 lb (36 kg) S = 120 lb (54 kg) S = 165 lb (75 kg) S = 200 lb (90 kg)	= 220 lb (100 kg) = 243 lb (110 kg) = 250 lb (113 kg) high activity



Remember to look for...



This seal of excellence is earned only by very select items. Although all **DAW** products meet the highest standard of quality, the "Signature of Excellence" items address themselves to the select patients who demand the best of the best.



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