



YOUR CANADIAN SOURCE FOR ORTHOPAEDIC SUPPLIES...& more

PRODUCT	Formable	Heating Temp.	DUROMETER (Shore "A")	TYPICAL USES	CHARACTERISTICS
Aliplast 10	Yes	250-325 F	60	Finishing material Interfacing	<ul style="list-style-type: none"> pleasing surface finish functional alternative to leather
Aliplast 4E	Yes	250 F 2-3 min	23	Sandal and Shoe linings for arthritic and diabetic patients Cervical Collars High pressure padding	<ul style="list-style-type: none"> exceptional energy absorption quickly melded to body contours when heated an alternative to Plastazote self-adhering at forming temperature
Aliplast 6A	Yes	250-325 F	34	Foot Orthotics Hand Splints	<ul style="list-style-type: none"> cross-linked, closed-cell foam heat moldable auto adhesive non-toxic, non allergenic good energy absorption on impact & inertness
Aliplast XPE	Yes	325 F	68	Socket and stump liners Night splints and other semi-rigid constructions Foot orthotics	<ul style="list-style-type: none"> extremely fine cell structure smooth, slightly pebbly continuous skin somewhat slippery in feel and does not 'grab' heat bonds to most other polyethylene materials resists long term bottoming out
Birkocork	Yes	150-175 F		Foot orthotics	<ul style="list-style-type: none"> Special blend of cork and EVA Unique lightweight, thermo-mouldable Self-adhering, supportive material Available in soft or hard/firm densities Grindability: gummy Spot adjustable with heat gun Washable Self-adhering

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Carbon Flex	Yes	350 F 1-3 min		Foot orthotics, reinforcing material	<ul style="list-style-type: none"> Mouldable at 356° F Grindable Will not relax over time (creep)
Cloud	Yes	225-250 F	35-40	Foot Orthotics, Prosthetics, Padding	<ul style="list-style-type: none"> moderate density EVA Excellent support and shock absorbing protection Can be used against skin Keeps flexibility after moulding spot adjustable with heat gun washable grindable
Composition Soling			90	Outer sole	<ul style="list-style-type: none"> Durable, leather-like
Colylene Recycle code (5)	Yes	425 F		Orthotics	<ul style="list-style-type: none"> low notch sensitivity edges polish easy does not crack in cold weather material becomes transparent when it reaches the optimum working temperature in the forming oven
Cushion Cork	No		50	Base or reinforcement for foot orthotics	<ul style="list-style-type: none"> flexible durable easy to grind
Dermaplast	Yes	275 F	Medium-20 Firm-35 X-firm-55	Orthotic splints Prosthetic linings Distal end pads High impact orthotics and foot supporters	<ul style="list-style-type: none"> structural integrity, assuring no packing or bottoming out under weight fabrication techniques including vacuum, pressure or thermoforming, grinding and trimming are easily performed
Diab-a-sheet	Yes	275 F 1-2 min	12	Insoles Components Padding	<ul style="list-style-type: none"> easy to grind, cut and shape adheres easily to other materials with contact or barge combines cushioning with the benefit of Plastazote for diabetics
DualSet	No		28	Top covers Stand alone insoles	<ul style="list-style-type: none"> grindable effective material when fabricating orthotics for diabetic patients water proof stretchable resilient surface 'dual' durometer vinyl based material with a closed cell
Durasole				Protective non-skid soling and heel post capping	<ul style="list-style-type: none"> Ultra-thin polyurethane soling Strong Non-skid Open cell Use Jet Set adhesive, if 1st coat doesn't stick let dry and apply 2nd coat

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EFM (Extra Firm Material)	Yes	250-275 F 1-2	70	Foot orthotics	<ul style="list-style-type: none"> can be used alone or with softer materials to provide support under the most strenuous conditions can be used for reinforcing the longitudinal and/or the transverse arch
Evazote	Yes	275 ° F 1-2 min	8	Liners/paddings	<ul style="list-style-type: none"> light weight closed cell easy to work with easily cut and sanded will 'bottom out' under pressure points
Fine Flex Cork	No		45-50	Base or reinforcement for foot orthotics	<ul style="list-style-type: none"> similar to Cushion Cork and Ortho Cork
Fine Rib Soling			75-80	Outer sole	<ul style="list-style-type: none"> Durable, slip-resistant
Kydex	Yes	350-375 F		Neck braces, body jackets, upper extremity orthoses	<ul style="list-style-type: none"> rigid easy thermo formability can be die cut mar-resistant
Latex foam	No		5	Insoles Foot cushions and soft linings	<ul style="list-style-type: none"> open cell natural foam soft, resilient, and odourless
Leather, Pig Skin	No			Orthotic covers	<ul style="list-style-type: none"> thin natural covering resists moisture damage
LUNAIRFLEX	YES	110-130 deg C	22		<ul style="list-style-type: none"> Alternative to Multiform
Microcell Puff- lite	Yes	275-300 F	20	Foot orthotics Prosthetic BK interliners Orthotic posting Heel lifts Light weight shoe elevations	<ul style="list-style-type: none"> good shock absorber will not bottom out with use can be spot adjusted, remoulded, or formed over a cast long lasting firm, dense, and durable gives good support with flexibility
Microcell-Puff Please see VPhoam	Yes	275-300 F 1-2 min	32	Shell & foot orthotics, prosthetic liners, top	<ul style="list-style-type: none"> heat mouldable extremely durable will offer extended use without bottoming out good support and flexibility easy to grind and glue with common adhesives
Mid Soling			90-95	Lifts	<ul style="list-style-type: none"> Very dense material
Moleskin	No			Protective padding	<ul style="list-style-type: none"> easily applied adhesive back soft and pliable
Molestick	No		24	Absorbent padding	<ul style="list-style-type: none"> easily applied adhesive back can be repositioned more readily than moleskin
Multicork	Yes	275-300 F 2-4	55	Foot orthotics Modifications Postings	<ul style="list-style-type: none"> unique combination of cork and EVA light weight heat mouldable very firm can be spot modified and is grindable

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Multiform (perforated and non) Please see VPhoam	Yes	130 C	28	Cushion material for orthotics and	<ul style="list-style-type: none"> vacuum formable not auto-adhesive may adhere to Resur or similar polyethylenes high compression resistance does not shrink
Multiform Plastic	Yes	230-275 F		Splinting material for orthotic & prosthetic applications	<ul style="list-style-type: none"> formulated to mould easily to the finest anatomical details rigid enough so that you are the master of your design yet to afford the control you need surfaces are neat because Multiform resists finger printing
NEOLON	NO		22	Top Covers Stand Alone Insoles	<ul style="list-style-type: none"> Closed Cell Alternative Sof sponge and Spenco
Nickleplast Firm	Yes	300-325 F	45-50	Insoling PTB liner Insole posting and wedging	<ul style="list-style-type: none"> expanded thermoplastic EVA copolymer resistant to bottoming out will not significantly compress in long-term use should be lined when used next to the skin as it has a very high coefficient of friction
Nickleplast X-firm	Yes	300-325 F	50-55	Insoling PTB liner Insole posting and wedging	<ul style="list-style-type: none"> expanded thermoplastic EVA copolymer resistant to bottoming out will not significantly compress in long-term use should be lined when used next to the skin as it has a very high coefficient of friction
Nickleplast-lite	Yes	300 F	40-45	Orthotic/prosthetic material	<ul style="list-style-type: none"> outstanding uniformity Superior working characteristics all the properties of Pe-lite but with the enhanced quality control adds good colour to orthotics high strength expanded orthotic material
Nora Astral Soling	No			Soling & heel tip sheets for ladies, men's & children's shoes	<ul style="list-style-type: none"> Good stretch characteristics Ultra-wear-resistant Slip resistant Gives the finishing touch to any orthopaedic shoe product Process using fast-setting and wide-band adhesive Must be carefully and thoroughly roughened
Nora Lunacell A	yes	120-170 C	Shore A 68	Lifting material	<ul style="list-style-type: none"> Particularly hard Especially firm Dimensionally stable Washable Eminently suitable for finishing For working footwear subjected to heavy stresses Anti-slip, scratch and tear resistant
Nora Lunairmed	Yes	110-130C	Shore A 18	Stabilizing elements such as artificial calf prostheses, etc. for light stress. Targeted and full-surface relief for those suffering from rheumatism and diabetes. Uppers – for interim, therapeutic and bathing shoes on highly sensitive feet for light stress. Cushioning material for orthopaedic shoes.	<ul style="list-style-type: none"> Very low density, extra soft, resilient, good elasticity, washable Heat mouldable

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Nora Lunalastik	Yes	110 – 130 C	Shore A 25	Soft bedding inserts	<ul style="list-style-type: none"> • Padded support for foot beddings • Forefoot cushioning at the foot bed • Cushioning support for heel spur etc • Good elasticity • High walking comfort • Washable • Easy to fix • Good tear resistance
Nora Lunalight A	Yes	120-170 C	Shore A 58	Lifting material	<ul style="list-style-type: none"> • Particularly hard, especially firm, dimensionally stable • Washable
Nora Lunasoft A	Yes	120-170 C	Shore A 50	Lifting material Stabilizing elements	<ul style="list-style-type: none"> • High elasticity, flexible • Dimensionally stable • Highly resilient, high walking comfort • Washable
Nora Lunasoft SL	yes	120 –170 C	Shore A 40	Lifting material Stabilizing elements	<ul style="list-style-type: none"> • Low density • Good elasticity, resilient, firm • Washable
Nora Lunasoft SLW	Yes	120-170 C	Shore A 30	Lifting material, Stabilizing elements, shock-absorbing material, cushioning material	<ul style="list-style-type: none"> • Low density, high elasticity, highly resilient, washable, excellent walking comfort
Nora Supersorb & Orthosorb	no			Shock absorbing material	<ul style="list-style-type: none"> • Visco-elastic shock absorbers • Supersorb best for sports shoes for shock absorption • Orthosorb more for cushioning and resilience • Supersorb – red • Orthosorb – green
NYPLEX	NO			Cushion /Top Cover	<ul style="list-style-type: none"> • 28 Durometer • Closed-cell Cushioning capability • Durable, washable, resilient • Blend of Nitrile Rubber and P.V.C.

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Orthacor	Yes	225-250 F 1-2	18	Foot orthotics Ideal replacement in extra depth footwear Direct Mould Orthotics	<ul style="list-style-type: none"> • 'dual' density closed cell material • moulds to the contours of the foot while standing or walking • either side may be used against the skin
Ortho Cork	No		45-50		<ul style="list-style-type: none"> • (similar to Cushion Cork and Fine Flex Cork)
Ortholen	Yes	375 F		Orthoses	<ul style="list-style-type: none"> • easy to form and fabricate • flexible cast plastic • strong • may be joined by friction welding
ORTHOLITE	NO			Top Covers Padding & extension work	<ul style="list-style-type: none"> • Open cell polyurethane base foam • Allows air and moisture to pass through • Provides maximum ventilation in and around foot • Wicks moisture away from foot • Inhibits growth of bacteria due to biocide additive • Fights presence of fungus, bacteria and odor • Very durable and strong • Has non-slip properties • Will not break down, abrade or tear inside shoe • Lightweight • Adheres well to orthotic shell
P-CELL	yes	250-275 Deg F 2-3 Min	20-25	In Place of Plastazote	<ul style="list-style-type: none"> • Heat moldable • Grindable • Long lasting
PPT	No		15-20	Padding material Foot orthotics and prosthetics	<ul style="list-style-type: none"> • advanced open cell padding material • protects against shock, pressure and shear • superior memory allows it to come back to its natural shape, even when subjected to extreme pressure, shock and shear forces for long periods of time • breathes • is porous and helps skin to remain dry, cool and won't lose shape or effectiveness when washed • easily worked with a grinding wheel, scissors or ordinary adhesives • non-sensitizing and its designed for years of use without change • resistant to bottoming out
PPT Plus	No		15-20	Insoles Foot orthotics	<ul style="list-style-type: none"> • scrim protects PPT from abrasion
PPT / Ultrilux	No		15-20	Top cover for orthotics	<ul style="list-style-type: none"> • see PPT • top cover offers wicking properties
Pedic Sponge	No		24	Orthotic interfaces	<ul style="list-style-type: none"> • absorbs shock and shear forces • open cell natural rubber allows ventilation and rapid • excellent elongation properties • will maintain up to 90% of its thickness

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Pelite	Yes	300-350 F	45	Stump & foot liners	<ul style="list-style-type: none"> • an EVA material with excellent consistency
PETG (Vivak, Dur-Plex)	Yes	250-320 F		Fabricating clear check sockets and burn masks	<ul style="list-style-type: none"> • excellent optical clarity
Plastazote Firm (LD70)	Yes	275 F	20	Liner material in both orthoses and	<ul style="list-style-type: none"> • see Plastazote Medium
Plastazote High Density (HD115)	Yes	275 F	55	Orthotic shells, lifts	<ul style="list-style-type: none"> • extremely light and very rigid
Plastazote Medium (LD45)	Yes	275 F 1-2 min	15-18	Liner material in both orthoses and	<ul style="list-style-type: none"> • light weight • closed cell • easy to work with • vacuum formed or drape moulded • will compress under weight bearing, and should be used less active patients • easily cut and sanded
Plastazote Rigid (HD80)	Yes	275 F	40	Orthotic shells, lifts	<ul style="list-style-type: none"> • extremely light and firm
Polycapping	Yes	275-300 F 2-4		Protective cap for heel posts	<ul style="list-style-type: none"> • Thin • Resists abrasion
POLYDUR	yes	350-375 F		Rigid foot orthoses	<ul style="list-style-type: none"> • Maximum rigidity • Resistance to bending and deformation • Excellent visual appeal
Polyethylene Modified MPE	Yes	350-375 F		Orthotics, prosthetics,	<ul style="list-style-type: none"> • more support than low density polyethylene • resistance to stress cracking and tearing • longer working time (forming window) • formulation for deep draw applications
Polyethylene, High density (H.D.P.E.) Recycle code (2)	Yes	300-450 F		Lower and upper extremity and spinal orthoses Foot orthotics	<ul style="list-style-type: none"> • edges are easy to polish • orthoses are easily adjusted since H.D.P.E. is cold • not easily over stretched when hot • crack resistant • moderate shrinkage when cooling • excellent low-cost substitute for Subortholene • may lose symmetry and conform to patient over extended period of time • self adhesive when hot
Polyethylene, Low density (L.D.P.E.) Recycle code (4)	Yes	350-400 F		For forming anterior shells of KAFO, AFO and some spinal orthotics	<ul style="list-style-type: none"> • maximum flexibility • moderate notch sensitivity • good orientation • polishing is recommended • polyethylene degrades with body acids

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POLYNYOLENE	YES	400-425 F 4-5 min Cool 3 min Work Fast		Foot Orthotics	<ul style="list-style-type: none"> extremely rigid good orientation
Polypropylene Recycle code (5)	Yes	400-425 F		Lower extremity orthotics	<ul style="list-style-type: none"> extremely rigid good orientation high notch sensitivity as well as tendency to mar easily when hot and to crack in cold weather has prompted many prosthetists to change to Coylene
Poron – Slow recovery	no		44 – Teal 34 – Maroon	Shock absorbing, cushioning	<ul style="list-style-type: none"> Open-cell foam Moulds to bottom of foot during weight bearing Does not bottom out Regains thickness after unloading Teal - for applications requiring greater product inertia Maroon – for standard applications Washable, grindable Non-allergenic
Poron Medical	No		Sep-14	Padding material Foot orthotics and prosthetics	<ul style="list-style-type: none"> versatile, lightweight, cellular urethane acknowledged as the material of choice for shock absorption and resiliency will not bottom out grindable and washable softer than PPT
Poron/Drilex	No		Sep-14	Padding material Foot orthotics and prosthetics	<ul style="list-style-type: none"> see Poron top cover offers wicking properties
Poron/Plastazote	Yes	275 F 1-2 min	12	Insoles Foot orthotics Any cushioning needs	<ul style="list-style-type: none"> grindable excellent cushioning and moulding either side may be used as a top or bottom layer
Pro-XP II	Yes	110-130 C	45-50	Foot orthotic foundations, pads in clinical	<ul style="list-style-type: none"> not auto-adhesive, may adhere to Resur or similar does not shrink may be remoulded with heat
Puff/EFM/Puff	Yes	225-300 F 1-2 min	38	Orthotic shells	<ul style="list-style-type: none"> Same properties as Microcell Puff EFM layer provides increased definition when formed
Puff/Gelform			34	Orthotics	<ul style="list-style-type: none"> gel layer protects against shear

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Quickform	Yes	200 F 1 min		Foot orthotics Reinforcing and stiffening	<ul style="list-style-type: none"> • heat activated adhesive on one side • offers firm support that can be thinned-out for flexibility, and comfort • forms easily to casts and combines with many materials • always mould with the fabric side down to minimize sticking
Quickstick	Yes	300 F 5-10 min	15	Personal protective padding Arthritic hand and arm rests Treatment table padding Lesion and ulcer protectors Low pressure orthopaedic, prosthetic, and brace padding	<ul style="list-style-type: none"> • extremely light weight • unique smooth surface is easily cleaned and provides a longer more sanitary life • high energy absorption
RCH500	Yes	325-375F 4-12 min	4-12 min	Same uses as Subortholen	<ul style="list-style-type: none"> • Excellent deep drawing properties. • In the cold state can be hammered, sawed, milled, rasped, planed, turned, drilled and sanded with metal and woodworking tools provided they are sharp • Odorless and resistant to nearly all chemicals including acids, bases and solvents • Shrinkage is normal when heated
Regen (Regenerated Leather)	No			Reinforcement for Shoes or Orthotics	<ul style="list-style-type: none"> • Inexpensive, easy to cut and glue
Sofsponge	No		28	Top covers Stand alone insoles	<ul style="list-style-type: none"> • grindable • excellent shock and moisture absorber • four way stretch nylon fabric cover is durable and generates minimal heat • open cell rubber base conforms to any shape allowing sofsponge to be used as a comfortable top cover
Renoflex	Yes	200 F 1 min		Foot orthotics Reinforcing and stiffening	<ul style="list-style-type: none"> • heat activated adhesive on one side • offers firm support that can be thinned-out for flexibility, control and comfort • forms easily to casts and combines with many materials • always mold with the fabric side down to minimize sticking • alternative to Qukform (no longer manufactured)
Soleflex	Yes	275 F (1-2 min)	50-55	Outsoles, foot orthotics, posting/wedging, midsoling	<ul style="list-style-type: none"> • durable, resilient and mouldable • moderately firm density EVA/SBR blend • can be used against the skin • spot adjustable with heat gun • grindable • washable
Soleflex (diamond)	Yes	300 F	50-55	Outsoles, orthotic posting, wedging,	<ul style="list-style-type: none"> • durable, resilient and mouldable • spot adjustable with heat gun • grindable • washable

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Soleflex Extra Firm	yes	325 F (1-2)	70-75 shore A	Foot orthotics, posting, wedging, midsole	<ul style="list-style-type: none"> Grindable Washable For applications that require the maximum in support
Soleflex Extra-Firm	Yes	325 F 1-2 min	70	Outsoles Posting, wedging, shoe build-ups	<ul style="list-style-type: none"> grindable washable
Soleflex Firm	Yes	325 F 1-2 min	60-65	Outsoles Posting, wedging, shoe build-ups	<ul style="list-style-type: none"> grindable washable
Spenco	No		22	Top Covers Stand Alone Insoles	<ul style="list-style-type: none"> superior shock absorption and energy return
S-Tech Cork	yes	225 F	60 Shore A	Foot orthotics, posting, wedging	<ul style="list-style-type: none"> Blend of EVA and cork Very light density with the firmness necessary for support Excellent trimming capabilities Washable Grindable Spot adjustable with heat gun
S-Tech L & H	yes	225 F	60 shore A	Foot orthotics, posting, wedging	<ul style="list-style-type: none"> 100% EVA version of S-Tech Cork Extremely light density with excellent trimming capabilities Grindable Spot adjustable with heat gun Washable
Subortholen Recycle code (4)	Yes	375 F		Supporting corsets Shells of any size Sockets and shanks for orthoses and prostheses Head and foot supports Large or small orthopaedic aids	<ul style="list-style-type: none"> does not shrink under heat treatment does not swell under humidity absorbs practically no water may be sterilized compatible with human skin excellent deep-drawing properties may be sawed, milled, rasped, planed, turned, drilled and sanded in cold condition with metal and woodworking tools provided that they are sharp cannot be glued or cemented corrosion resistant in any climate
Surlyn	Yes	350 F		Flexible prosthetic interfaces	<ul style="list-style-type: none"> not affected by cold low notch sensitivity more flexible than PETG minimal rigidity and a low tear factor should be formed over a warm wet model

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Teflon sheeting				Non-stick oven liner for heating plastics	<ul style="list-style-type: none"> • non-stick • can be re-used many times
Therafoam-4	Yes	250-325 F	23	Lining orthoses	<ul style="list-style-type: none"> • accepts stitching nicely without tearing • very soft lightly textured surface • can be modified quickly using a heating gun • retains its memory very well • will not pack down or bottom out • thermoforms quickly and easily • self-adhering at forming temperature
Thermo HK	Limited	120 C		Reinforcing Material	<ul style="list-style-type: none"> • Thermoplastically mouldable • Adhesive on one side
Thermocork	Yes	170 F	60-65	Foot Orthotics	<ul style="list-style-type: none"> • cork and EVA composite
Thermoforte (Ucolene 60)	Yes	325 F	65	Foot orthotics	<ul style="list-style-type: none"> • semi-rigid more rigid than Nickleplast • very strong • moulds and sands very well • disperses impact well • excellent usable life
TPE	Yes	390-410 F		Foot orthotics Articulating AFO's	<ul style="list-style-type: none"> • great flex life and greater stress crack resistance • retains good impact strength to temperatures as low as • may be sterilized
Tri-lam	Yes	225-300 F	30	Prosthetic BK liners Foot orthotics	<ul style="list-style-type: none"> • a unique combination of Poron laminated between two of Microcel Puff which shields the Poron from wear and tear. • very resistant to bottoming out • full moulding to even the most complex shapes
Ultra-Cloud	Yes	175-250 F 1-2 min	17-20	Top cover for foot orthotics, prosthetics, padding	<ul style="list-style-type: none"> • soft, lightweight EVA • can be used against the skin • grindable • spot adjustable with heat gun • washable
Vinair	No			Top covers Calf bands Leg bands	<ul style="list-style-type: none"> • Wicks moisture • very thin and durable • can be washed • stays cool next to the skin even during the most strenuous applications
Vinyl, Executive	No			Top covers	<ul style="list-style-type: none"> • thin, durable • heat gently to work into deep heel cup
VPhoam Comparable to: Microcell Puff Multiform Bock-Lite	yes	275-300 Deg F 1-2 Min	35	Shell & Foot Orthotics, Prosthetic Liners, Top Covers	<ul style="list-style-type: none"> • heat moldable • extremely durable • will offer extended use without bottoming out • good support and flexibility • easy to grind and glue with common adhesives • alternative to Microcell Puff™ and Multiform™

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Wide Rib Soling			85	Outer sole	<ul style="list-style-type: none"> • Durable, slip-resistant
XRP Reinforcement Panels	Yes	400 F		Orthotic & prosthetic applications, reinforce thermoplastic sheets such as A.F.O.'s, R.G.O.'s sockets, foot inserts, braces	<ul style="list-style-type: none"> • graphite and glass fibres for maximum reinforcement • increased strength and stiffness of local areas • polypropylene matrix, to heat weld to polypropylene and copolymer materials • thin and lightweight • allows reduction of part thickness • barrier film for safety and comfort • easily moulded to deep contours • machined and finished using conventional equipment • can be adjusted with local heat
XT Sprint (carbon composite)	Yes	390 ° F 3-5 min		Thin, durable foot orthotics	<ul style="list-style-type: none"> • easy to mould • allows relatively deep heel seats • can be re-heated and remoulded • indefinite shelf life • easy to grind and finish • adjustable with heat gun after forming • unique resin formulation for high resistance to cracking, impact and fatigue • will not creep, relax or bottom out • superior recoil and spring characteristics

Vittoria Phoenix is a Canadian distributor of these orthopaedic and prosthetic materials and supplies.

The above information is provided by our various international and domestic suppliers and is correct to the best of our knowledge.

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