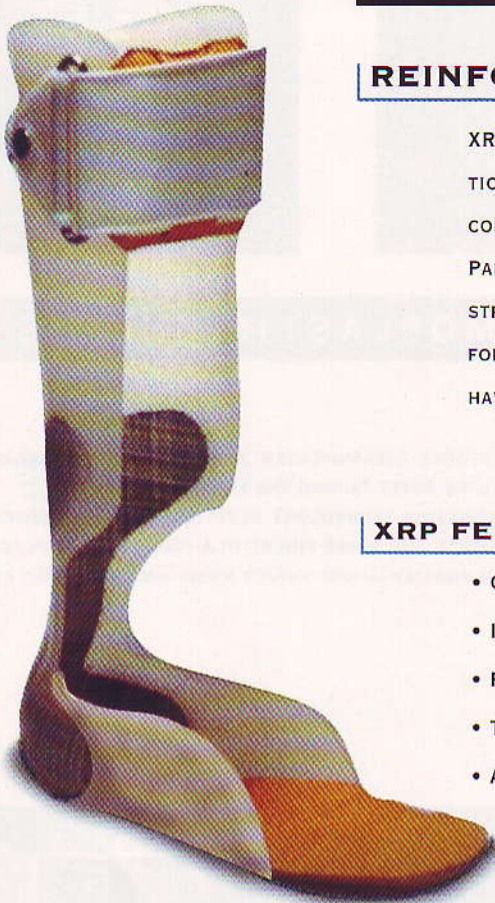


REINFORCEMENT PANELS FOR THERMOPLASTIC SHEET.

XRP REINFORCEMENT PANELS BRING AN INNOVATIVE TECHNOLOGY TO ORTHOTIC AND PROSTHETIC APPLICATIONS. IT SATISFIES BOTH THE WORKSHOP NEED FOR EASE OF FABRICATION AND THE PATIENT NEED FOR COMFORT AND PERFORMANCE.

PARTS AND DEVICES MADE FROM THERMOPLASTIC SHEETS, SUCH AS POLYPROPYLENE, ARE REINFORCED IN STRATEGIC LOCATIONS BY THERMOBONDING THE XRP PANEL TO THE POLYPROPYLENE PART DURING VACUUM FORMING OR DRAPE MOLDING. THE RESULT IS A PART WITH INCREASED STRENGTH AND STIFFNESS, WITHOUT HAVING TO RAISE THE BASIC SHEET THICKNESS.



XRP FEATURES.

- GRAPHITE AND GLASS FIBERS 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 MOLDED TO DEEP CONTOURS.
- MACHINED AND FINISHED USING CONVENTIONAL EQUIPMENT.
- CAN BE ADJUSTED WITH LOCAL HEAT.



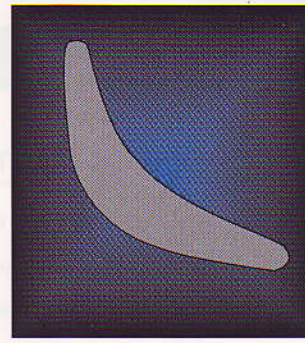
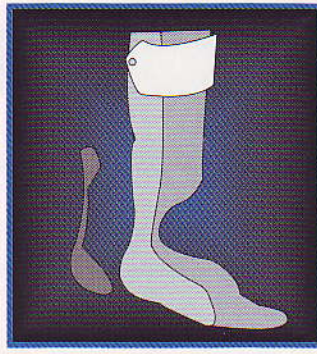
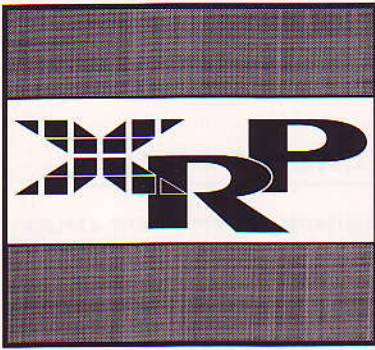
XRP PRODUCT SELECTION.

PRODUCT	APPLICATION	THICKNESS
110	THIN & LIGHT REINFORCEMENT	1.7 MM 0.067"
112	LIGHT & MEDIUM REINFORCEMENT	2.0 MM 0.079"
114	LIGHT & MEDIUM REINFORCEMENT	2.5 MM 0.098"
116	HEAVY DUTY REINFORCEMENT	3.4 MM 0.134"

SIZES AVAILABLE	SMALL 30 CM X 30 CM (12" X 12")	MEDIUM 45 CM X 45 CM (18" X 18")	LARGE 91.5 CM X 91.5 (36" X 36")
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• REINFORCEMENT PANELS ARE AVAILABLE IN A NUMBER OF GRADES, FOR GENERAL REINFORCEMENT AS WELL AS UNIDIRECTIONAL REINFORCEMENT.



XRP REINFORCEMENT PANELS FOR THERMOPLASTIC SHEETS

TECHNICAL.

XRP REINFORCEMENT PANELS ARE HIGH PERFORMANCE, ADVANCED COMPOSITES DESIGNED TO REINFORCE THERMOPLASTIC SHEETS, AND TO INCREASE STRENGTH AND STIFFNESS OF THE PARTS. THE XRP PANEL HEAT BONDS (WELDS) TO THE POLYPROPYLENE SHEET DURING THE FORMING PROCESS. THE LIGHTWEIGHT, THIN, AND STRONG PANELS ARE A RESULT OF A UNIQUE PATENTED FIBER IMPREGNATION TECHNOLOGY DEVELOPED FOR AEROSPACE APPLICATIONS. THE MATERIAL PRODUCED IS A TRUE COMPOSITE WITH UNIFORMLY DISTRIBUTED GRAPHITE AND GLASS FIBERS IN A TOUGH THERMOPLASTIC MATRIX. THE MULTI-AXIAL FIBRE ORIENTATION PROVIDES HIGH STRENGTH AND STIFFNESS, HIGH TORSIONAL AND IMPACT RESISTANCE, AS WELL AS EXCELLENT SPRING CHARACTERISTICS.

APPLICATIONS.

REINFORCEMENTS IN A.F.O.'S, R.G.O.'S SOCKETS, FOOT INSERTS, BRACES.

PROPERTIES.

PRODUCT DATA		P R O D U C T S			
PROPERTIES	UNITS	110	112	114	116
THICKNESS	mm (inches)	1.7 (0.067)	2.0 (0.079)	2.5 (0.098)	3.4 (0.134)
WEIGHT	Kg/m ² (lbs/ft ²)	2.21 (0.453)	2.52 (0.516)	3.26 (0.668)	4.75 (0.973)
RIGIDITY	Factor	11	16	34	95
MOLDING TIME	MINUTES	4	5	6	7

- * POLYPROPYLENE HAS A RIGIDITY FACTOR OF 1
- * TESTED IN ACCORDANCE WITH BAYCOMP TEST METHOD BT 020

MOLDING.

XRP PANELS WILL MOLD AT THE SAME TEMPERATURE AS THE POLYPROPYLENE OR THE PP COPOLYMER SHEET.

- PLACE THE PP SHEET AND THE XRP SIDE BY SIDE IN OVEN AT 200°C (400°F).
- PLACE THE HEATED XRP ON THE MOLD AT THE DESIGNATED LOCATION.
- DRAPE THE PP SHEET OVER THE XRP ON THE MOLD.
- APPLY VACUUM AND COOL.

*REFER TO THE XRP MOLDING INSTRUCTION FOR FULL DETAILS.

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