



Product Highlights 2020

DESCRIPTION

Duralite-XT Orthotics are lightweight, high strength laminates that are available in several rigidity types ranging from Ease Flex to ultra Rigid.

FEATURES

- Thin, durable material for custom orthotics for use in broad and demanding applications, (i.e. dress shoes, athletic applications)
- 6 XT grades for ultimate design control
- Easy to mold and finish, requiring no special handling
- Value/performance leader
- High performance - yet economical

AVAILABLE PATTERNS

- Fire
- Silver dot
- Ice
- Ocean
- Lizard

TYPICAL LAMINATE PROPERTIES: THICKNESS VS. RIGIDITY

PROPERTY	THICKNESS	RIGIDITY	FLEXURAL MODULUS	TIME GRID MINUTES AT 200°C
Ease-Flex*	1.50 - 1.75 mm	85 N-cm*	3.0 GPa*	3.0
Semi-Flex**	1.60 - 1.80 mm	265 N-cm*	9.0 GPa*	3.5
Semi-Rigid***	1.85 - 2.00 mm	600 N-cm*	6.7 GPa*	4.0
Medium-Rigid****	2.10 - 2.40 mm	724 N-cm*	7.3 GPa*	4.5

*Based upon 1.6 mm thickness

**Based upon 1.7 mm thickness

***Based upon 1.95 mm thickness

****Based upon 2.2 mm thickness

PROPERTY	THICKNESS	RIGIDITY	FLEXURAL MODULUS	TIME GRID MINUTES AT 200°C
Rigid*	2.40 - 2.65 mm	920 C-nm*	5.3 GPa*	4.5
Ultra-Rigid**	2.85 - 3.20 mm	1350 C-nm*	5.3 GPa*	5.0

*Based upon 2.6 mm thickness

**Based upon 3.0 mm thickness



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PRODUCT TYPE AND COMPOSITION

Duralite XT CFRT (Continuous Fiber Reinforced Thermoplastic)
Glass Fiber Polypropylene Thermoplastic Biaxial Laminate

TYPICAL APPLICATIONS

- Orthotics

PERFORMANCE

- Composite structure for thinness and high strength
- Unique resin designed for high resistance to cracking, impact, and fatigue
- Superior recoil and spring characteristics
- Deep heel cups and directional rigidity for greater foot support and control
- Can be reheated and remolded

FABRICATION

- Easy to mold - allows deep heel cups
 - Can be reheated and remolded
 - Indefinite shelf life, no special storage conditions
 - Easy to machine and finish
 - Post adjustment with heat gun
 - Equipment required: oven, vacuum former, mold cast, release liner (Teflon), gloves
1. Set the panel on release liner and place in oven at 200° (400°F) for 3-5 minutes (see time grid)
 2. Place the softened panel on mold
 3. Promptly apply vacuum and close the rubber membrane
 4. For the deep arches, massage out any wrinkles by hand
 5. After about 1 minute, remove molded insert and trim

AVAILABLE SIZES

Cm	Inches
8.3 x 17.8	3.25 x 7
8.9 x 19.1	3.5 x 7.5
10.2 x 20.3	4 x 8
10.2 x 21.6	4 x 9
10.2 x 30.5	4 x 12
12.7 x 22.9	5 x 9
15.2 x 30.5	6 x 12
61 x 91.4	24 x 36
91.4 x 122	36 x 48



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