

Clinical Orthotic Prescription Manual

Materials • Modifications • Posting • Corrections



SHELL TYPES

Polypropylene

- White thermoplastic providing controlled support
- Durable with good fatigue resistance
- Heat moldable for precise fit and intrinsic correction
- Easily modified (grinding, posting, skives, etc)
- Versatile for a wide range of foot types and footwear
- Reliable balance of control, durability and adaptability
- Offered in a variety of thickness/rigidity:
 - 2mm
 - 3mm
 - 4mm
 - 5mm

Carbon Flex

- A carbon composite blend
- Excellent energy return and propulsion assistance
- Very strong and lightweight
- Maintains shape under high load (minimal deformation)
- Ideal for high-demand or athletic patients
- Less accommodative than polypropylene
- Offered in a variety of thickness/rigidity:
 - 1mm
 - 2mm
 - 3mm

Graphite

- Thermoplastic base reinforced with graphite fibers
- Thin and lightweight
- High strength-to-thickness ratio
- Good energy return
- More flexible than pure carbon fiber
- Less bulky
- Up-charged product
- Offered in a variety of rigidities:
 - Flexible
 - Semi-Rigid
 - Rigid

EVA/Pelite

- Soft to firm foam material
- Highly accommodative
- Lightweight and flexible
- Bulkier in nature
- Excellent pressure redistribution
- Comfort focused, not corrective

Cork (Soft or Firm)

Feature	Soft Cork	Firm Cork
Density	Lower	Higher
Compressibility	More compressible	Less compressible
Support Level	Accommodative	Semi-functional
Shock Absorption	Higher	Moderate
Durability	Compresses sooner	Maintains shape longer
Best Suited For	Sensitive or painful feet	Patients needing stability with comfort
Clinical Focus	Comfort and pressure relief	Support with accommodation

TUFF

Thin Ultra-Formed Frame

- Carbon fiber blend
- Ultra light
- Uniform thickness while maintaining thin frame
- Offered in a variety of rigidities while maintaining a 1.8mm thick shell
- Rigidities available:
 - Semi-flex
 - Semi-Rigid
 - Rigid
 - Ultra-Rigid

Contact Us

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