Materials - Frame Options
Information Provided By Kevin Orthopedic Institute

Carbon

FRAME FABRICATION METHODS ACCEPTED:
- Plaster positive model vacuum formed
- CAD CAM positive model vacuum formed
- Redimold positive model vacuum formed

FEATURES:
- High stiffness and good tensile strength
- Thin
- Lightweight

CLINICAL INDICATION:
- Active patients

Carbon XT is a mixture of high strength carbon fiber and glass composite blended with polypropylene material used for orthotic frames. It is used to make up the solid foundation of the heel cup and the material that extends distally to proximal of the metatarsal heads. Carbon fiber is used to provide thin, strong and rigid frames.

The 3mm Carbon TL-2100 is a combination of carbon fiber, graphite and acrylic based thermoplastic resin material used for orthotic frames. This carbon material is known to provide an extraordinary strength when compared to other carbon fiber materials while maintaining its thinness. After extended wear, the TL-2100 is prone to cracking.

Note 1: If carbon frames are selected, a top cover is essential to protect the plantar foot from potential cracks or splintering resulting from extended use.

Note 2: Distal edge thickness is depicted for comparison purposes. The distal edge of all frames are tapered to an approximated 1mm thickness to provide comfortable transition off the frame.

Note: All illustrations and diagrams are of right foot