

# C-TEK® MODStiff™

## Increased stiffness without the weight

C-TEK® MODStiff™ is an innovative material with a chemistry based on polyethylene that offers a level of stiffness (flexural modulus) between modified polyethylene (MPE) and copolymer polypropylene (Copoly).

This material is used in applications where modified polyethylene is not stiff enough and copoly is too stiff. The ability to downgauge material thickness provides the opportunity to lighten an orthoses.



### FLEXURAL MODULUS (ASTM D790) COMPARISON

Modified Polyethylene (MPE)	50 kpsi
C-TEK® MODStiff™	103-109 kpsi
Copolymer Polypropylene (Copoly)	200-215 kpsi

### Great for body jackets!

#### APPLICATIONS:

- TLSOs (body jackets)
- Night splints
- AFOs and SMOs
- Wrist braces

#### PERFORMANCE CHARACTERISTICS:

- Increased Stiffness
- Lightweight
- Easy to fabricate and form
- Good chemical resistance

#### FABRICATION INFORMATION:

- No special fabrication techniques or equipment needed
- Material will “clear” in the oven similar to modified polyethylene and copoly

#### AVAILABILITY:

- **Thickness:** .125" and .156"
- **Sheet Sizes:** 24" x 48" - 48" x 96"
- **Color:** Natural (White)