

Homopolymer Polypropylene



Material Characteristics

Lightweight

More rigid than copolymer polypropylene

Brittle

NSP only supplies stress relieved sheet
Non-stress relieved sheet is more brittle than stress relieved

Notch sensitive (if any stress is applied to any cuts or “nicks” at the edge of the material it will crack or split)

Reasonable impact strength

Impact markedly reduced at temperatures below 5°C/41°F

Shrinkage of less than 1%*

** Shrinkage by volume as measured in a study conducted by NCTEPO at the University of Strathclyde.*

Applications

- Ankle Foot Orthosis - AFOs
- Dynamic Ankle-Foot Orthosis - DAFOs
- Definitive Prosthetic Sockets
- Frame Sockets
- Knee Ankle Foot Orthosis - KAFOs

Material Specifications >



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Material Specification

Sheet size for orthotics:
2440 x 1220mm

Square size for prosthetics
500 x 500mm, 460 x 420mm, 406 x
406mm, 343 x 343mm, 305 x 305mm

**Available in the following
thickness:**

2mm, 3mm, 4mm, 5mm, 6mm,
10mm, 12mm, 15mm
Tolerance on thickness: $\pm 5\%$

Available in the following colours:
Natural

Moulding temperature:

Orthotics 180° - 200°C / 356° - 392°F
Prosthetics 200°C - 220°C / 392° -
428°F

Cooking time:

3 minutes per mm thickness

N.B. As all ovens have slightly different heating characteristics please use our recommended timings as a guide only.



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