Northene®

Material Characteristics

**Northene LDPE:**
Semi flexible
Good impact strength
Affected by skin oil exuded in sweat
Can lead to stress cracking

**Northene 500:**
High Molecular Weight Polyethylene
Very low shrinkage
Rigid

**Northene 1000:**
Ultra High Molecular Weight Polyethylene
Very low shrinkage
Rigid, strong material
Northene 1000 produces a natural “leaf spring” effect when formed into an AFO
Difficult to mould

**Northene HD:**
Rigid
Good Impact Strength
Good Flexural Strength

Applications

**Northene LDP** - Bodyjackets, Wristsplints, Neck Braces, AFOs, Lightweight AK/BK Sockets

**Northene 500** - AFOs, KAFOs, Body Jackets, FFOs

**Northene 1000** - AFOs & KAFOs

**Northene HD** - Standing Frames, Body Jackets, AFOs

Material Specifications >

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Material Specification

Sheet size for orthotics
LDP - 2440 x 1220mm
500 & 1000 - 1910 x 910mm
LDP - 2000 x 1000mm

Square size for prosthetics
LDP - 406 x 406mm, 343 x 343mm, 305 x 305mm

Available in the following thickness:
LDP - 3.1mm, 4.7mm, 6mm
500 - 2mm, 3mm, 4mm, 5mm, 6mm
1000 - 2mm, 3mm, 4mm, 5mm, 6mm, 8mm
HD - 3mm, 4mm, 5mm, 6mm

Tolerance on thickness: ±5%

Available in the following colours:
500 - Natural, Skin, Black, Red, Blue
1000 - Skin
LDP & HD - Natural

Moulding temperature:
LDP - Orthotics 150°C / 302°F
Prosthetics 150°C / 302°F
500 - Orthotics 160°C / 320°F
1000 - Orthotics 180°C / 356°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.