

# 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

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**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

### 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:  $\pm 5\%$

### 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.*



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