



CUTTING BOARDS



Characteristics of cutting boards

- ⦿ Elasticity ? Durability ? Ductility ?
- ⦿ Weight
- ⦿ Rigidity? Flexibility ?
- ⦿ Method of manufacture
- ⦿ Hardness





Elasticity

Property prevents board from;

- ⦿ Work hardening
- ⦿ Becoming brittle
- ⦿ Breaking up on surface
- ⦿ Premature life
- ⦿ Splitting when making





Weight

It is essential to consider weight when selecting thickness of board.

Consider needs of operator & application.



Rigidity ?

The values to the customer.

- ⦿ Aim to extend life of cutting tool
- ⦿ Aim to extend life of cutting board

Rigid boards which remain flat are often mistaken as a quality board. Consider tool life.



Method of Manufacture

Types of Cutting Boards:

- ⦿ Press Moulded
- ⦿ Extruded



Press Moulded Boards

Advantages: Produces a high quality stable cutting board with consistent hardness throughout.

Manufactured by pouring polymers into a mould. They are then subjected to high pressure and temperatures over several hours

Surface requires machine to tobrance before use.



Press Moulded Boards

Advantages of Press Moulded boards:

- Low internal stress
- Surface de-stressed by planing
- Method ensures consistent quality
- Max size 5m x 2m x 50mm





Extruded Boards

Manufactured by drawing heated plastic through a series of rollers and cooled slowly.

No planing required.



Extruded Boards

Advantages of Extruded boards:

- Economical in terms of price
- Can produce thin boards
- Max size 3m x 2.2m x 25mm





Hardness

Normally an inconsistent measure of quality,
provides a general guide to knife penetration. Other factors MUST be considered before setting a cutting board.



SP Green

- ⦿ Coloured green
- ⦿ Press moulded
- ⦿ 69 shore hardness
- ⦿ Thickness 10mm to 50mm
- ⦿ Max sheet size 5m x 2m
- ⦿ Designed for cutting most paper & leather



JN 480G

- ⦿ Coloured natural
- ⦿ Press moulded
- ⦿ 75 shore hardness
- ⦿ Thickness 10mm to 50mm
- ⦿ Max sheet size 5m x 2m
- ⦿ Designed for cutting textiles, man-made fibres & fabrics





JN 480E

- ⦿ Coloured natural
- ⦿ Extrude
- ⦿ 75 shore hardness
- ⦿ Thickness 3mm to 12mm
- ⦿ Designed for most roller press work





Nylon

- ⦿ Coloured natural
- ⦿ Cast moulded
- ⦿ 85 shore hardness
- ⦿ Thickness 6mm to 50mm
- ⦿ Max sheet size 2m x 1m
- ⦿ Can be welded
- ⦿ Designed for cutting man made and aramid fibres, and re-inforced gasket material





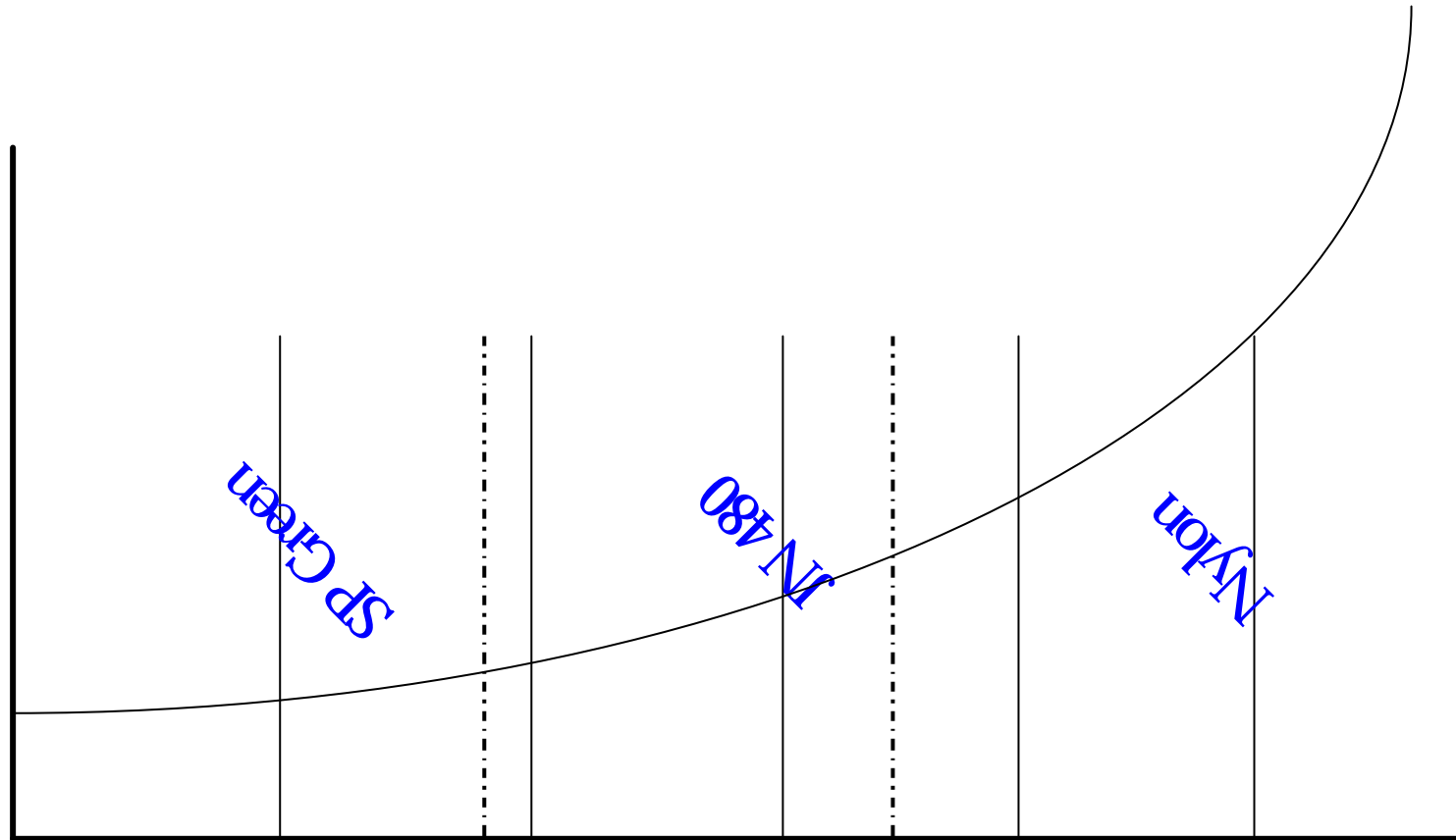
PW 90

- ⦿ Coloured natural
- ⦿ Cast moulded
- ⦿ 72 shore hardness
- ⦿ Thickness 1mm to 12mm
- ⦿ Max sheet size 3m x 1.5m
- ⦿ Can be welded
- ⦿ Designed for average quality roller press applications



Which Boards?

Pressure
required
for cut
(Same sized
knife)



*Paper Leather Natural Fibres Man Made Fibres Aramid Fibres

Material

* Paper requires high cutting force

