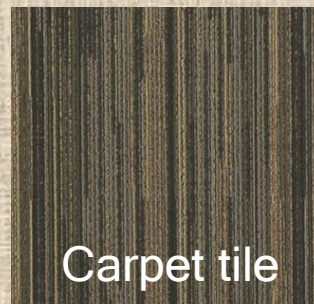
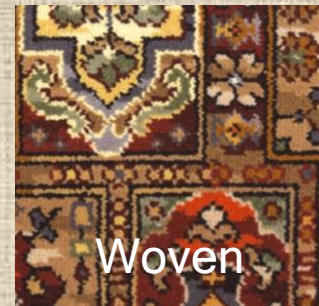
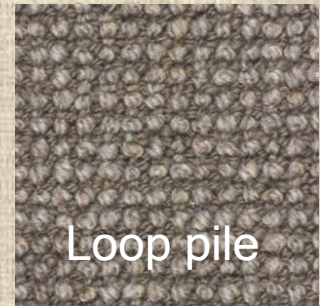


Carpet floor coverings - part 2

Making different carpet types

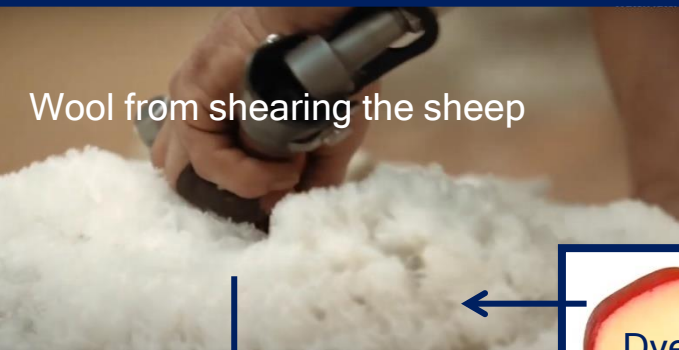
1. Tufted
2. Woven
3. Carpet tile
4. Needle punch



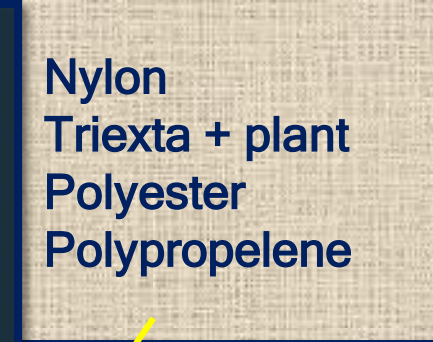
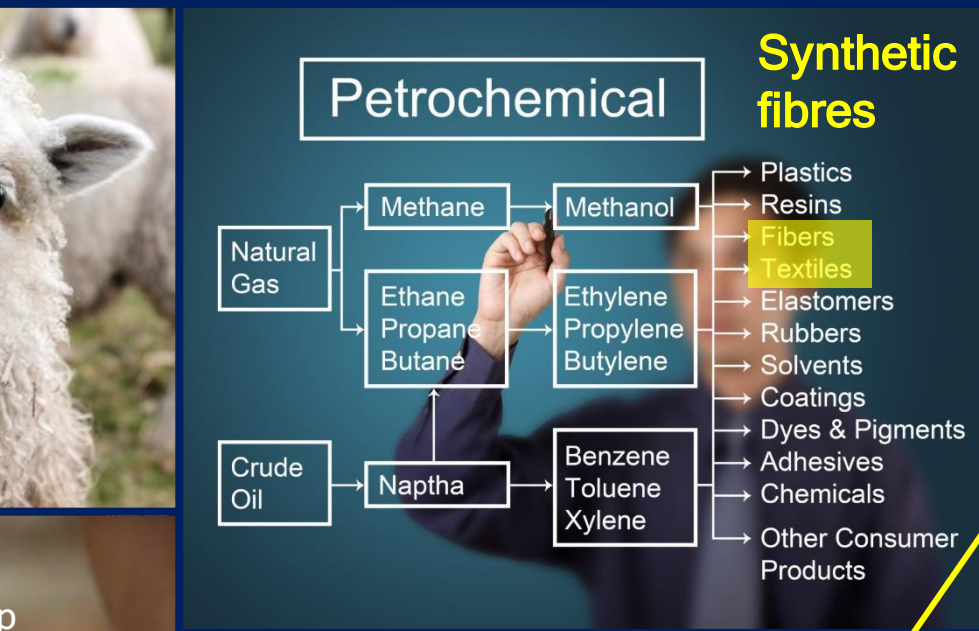
Let's have a look at the yarn types first



Carpet fibres
Natural



Wool from shearing the sheep



Recycled Plastic



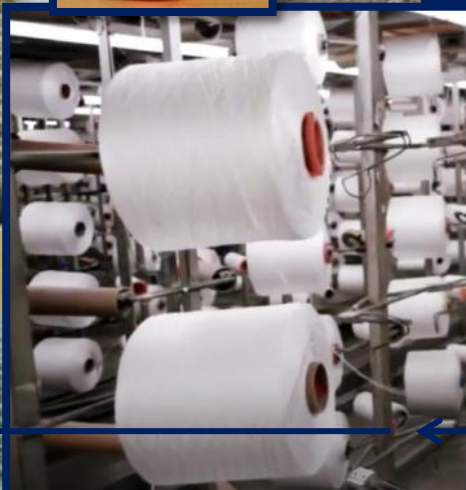
Dyeing fibre



Plastic pallets melted



Solution dyed fibre



Extruding into fibre

Recap on woven carpets

(Axminster) *Yarn woven together with backing strands*



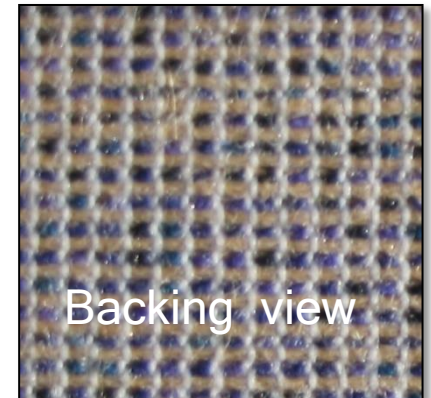
1. **Pile** - Yarn either Wool (more common) or wool /synthetic blend



2. **Jute** - Backing strand (weft)



3. **Cotton** - Backing strand (warp)



Backing view

4. **Latex** - To stabilise the backing



Recap on tufted carpets

1.2

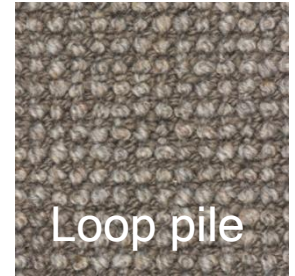


*Yarn tufted into a primary backing
A secondary backing is then applied to the back*

1. **Pile** - Yarn either Wool or Synthetic yarn

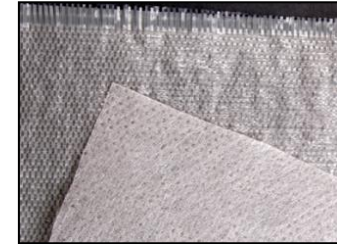


Cut pile



Loop pile

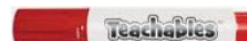
2. **Primary backing** - Woven polypropylene or fleece



3. **Secondary backing** - Jute or synthetic (Man made plastic)



4. **Latex** - Secures the tufts into the primary backing and bonds the backings together



Sticthing methods

(Tufted carpet)

5.4



How the carpet yarn is stitched into the primary backing to create the pile can influence how the seam will be cut.

1. **Straight stitch** - Stitching is a in straight line
2. **Slight shift stitch** - Stitching is slightly off set like a tear drop. These carpets need to be cut so they can merge like a zip when joined



How are needle punch carpets made?

(Garage carpet) *Layers of fibres compressed (punched) with a needle board*
Latex is then applied to backing



1. **Fibres** - Loose synthetic fibres (polyester Polypropylene)

2. **Latex** - To stabilise the backing



How are carpet tiles made?

Similar to the tufting method with various backings cut into tiles

1. Pile - Synthetic yarn
2. Primary backing - Non- Woven polypropylene or fleece
3. Stabilising carrier- Fibreglass fleece
4. Bonding agent- Adhesive
5. Backing - Various types-PVC, carbon, rubber, synthetic based, soft

