

◦ PE thickness
≥ 8mm

◦ Knee kinematics

Sliding wear is bad
less sliding with RS

◦ Articular geometry
Avoid flat PE (Max point loading)
Maximize contact area

Catastrophic
PE wear in TKA

◦ Polyethylene processing
Direct compression molding best
Machining of rem is bad
Irradiated PE bad (in Ar)
Oxidised PE ↓ Mechanical
Strength
Curing → stretch effect
1-2mm below cut surface
White band of oxidation
as a result of
PE stretch/oxidation
effect

◦ Surgical technique

Tight flexion gap
Limb alignment