

Advantages

1. Structural Strength
 - No recycled content (95%ile strengths)
 - 300mm minimum cover for highway loads
2. Inert to most Hazardous Chemicals
 - Inert to pH range of 2 to 12
 - Inert to Acid Sulphate soils
3. High Abrasion Resistance
 - Darmstadt University Testing (HDPE 600,000 cycles = 0.3mm abrasion)
 - Extensively used in sandy areas and mine slurry lines
4. 114 year Design Life
 - 100 yr creep modulus 148MPa, extrapolated from 10,000hour testing
 - Less than 2% long term strain at 100 years
 - No reinforcement to rust.
5. UV Resistant
 - HDPE is UV resistant for > 100 years with 2% carbon black
 - Outperform exposed PP pipes (< 15 year life)
 - HDPE used for coating electricity cables
6. Ease of Installation and Handling
 - Light weight, no welding and no bell joint.
 - No wastage.
7. Low Carbon Footprint
 - Lowest embodied energy of any pipe finished pipe.
 - Reduced emissions during transport and installation.
8. Thermal Resistance (Fire)
 - HDPE does not support combustion

