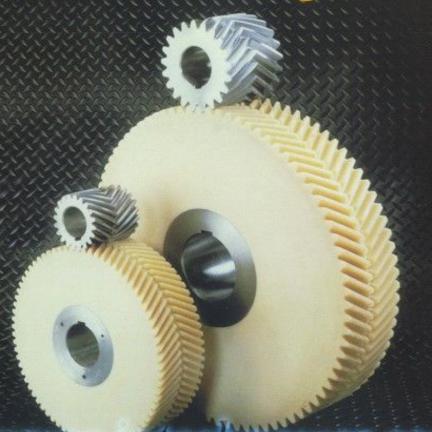
## What they don't teach you in engineering school about gear design





## It's this:

- 1. The life of plastic gears can be calculated just like metal gears.
- 2. Plastic gears can replace metal gears in most open gearing applications. The metal core increases the gear's torque transmission capability and provides a secure attachment to the shaft.
- When designing gears for non-lubricated application, the tooth root stress calculation is no longer sufficient.
   Flank wear also has to be considered.
- 4. A tooth profile modification can reduce wear.
- 5. Plastic gears allow a unique way to eliminate backlash.

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## Only Power-Core "plastic-on-metal" gears give you all these advantages!

- Fabricated to AGMA Class 9+ machined to high accuracy.
- Outer diameters from \_ inch to 3 feet and larger handles a wide range of applications.
- Precision-matched tooth geometry tooth mesh designed to match application; gear material dimensionally stable.
- Light weight reduces inertia and drive power requirements.
- Does not grow or swell in moisture reduced backlash; suitable for wash down and sub-zero applications.

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