

Injection-molded Polypro Tubes with In-Mold Label

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Why Polypro Tubes instead of MDPE or LDPE

Injection-molded tubes with PP-based in-mold labeling and PP closures are **100% recyclable** in the PP stream. On the other hand, more extruded tubes consist of an LDPE (or MDPE) body, HDPE shoulder/neck and PP closure. To recycle extruded tubes, the PP closure needs to be separated from the tube body into the PP stream and the tube body/shoulder/neck go into the PE stream. As such, recycling extruded tubes requires an additional process to relative to injection-molded tubes. This tube may not be recyclable in your area.

Why PP is More Eco-Friendly?

- PP has the lowest CO₂e emissions by weight of all categories of plastic: 14% less than the next best plastic HDPE (source: Walmart Packaging Scorecard).
- Greenhouse gas emission from package production is lower than HDPE, PC, PVC and PET.
- Lightest product weight compared to HDPE, PC, PVE and PET.
- Smallest Mass and density of all plastic types.
- PP is most 'sustainable material' among all plastic types*
- PP second only to PVC in energy to produce raw material
- PP is the lowest CC₂e to produce ray material**
- Recycling rates have risen steadily:
 - 2004 – 3%
 - 2005 – 9%
 - 2006 – 11%

* according to Walmart's overall criteria. (Source: Walmart's comparison of plastic types for hypothetical product)

** Source: Cradle-to-Gate Life Cycle Inventory Report