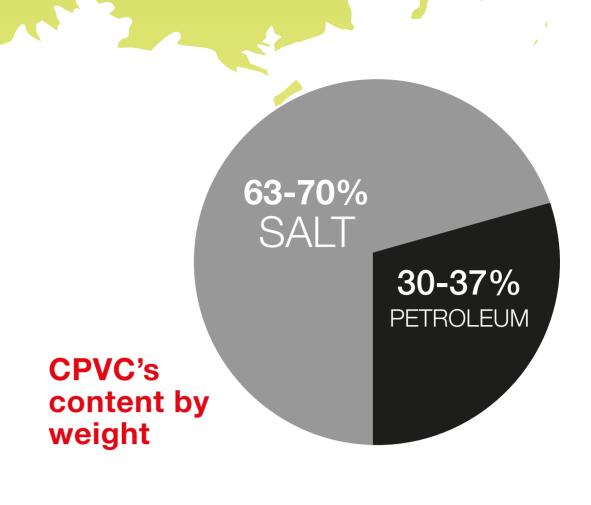


## How Energy Efficient Is CPVC

# Compared to Other Piping Materials

#### What is CPVC?

CPVC compound is used for hot and cold plumbing system piping and fittings. By weight, 2/3 of **CPVC** comes from the same elements found in salt, of which there is an almost limitless supply, while only 1/3 comes from petroleum resources.

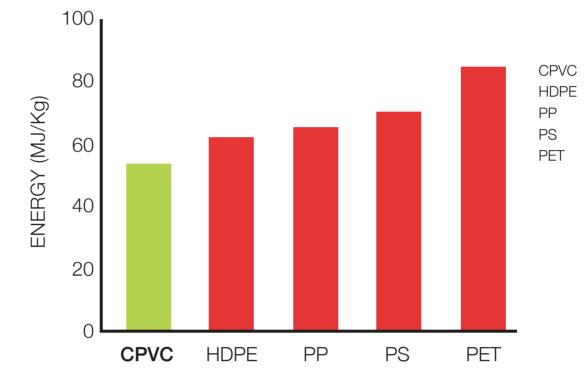


## 3 Key Areas Where CPVC Has Lower **Environmental Impact than Alternatives**



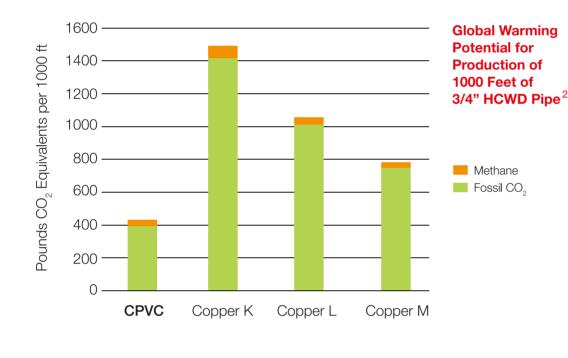
### **Energy Consumption During Production**

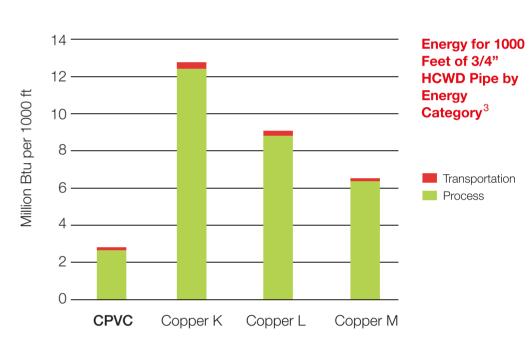
**CPVC** production requires less energy than most other polymers due to its low petroleum content.1



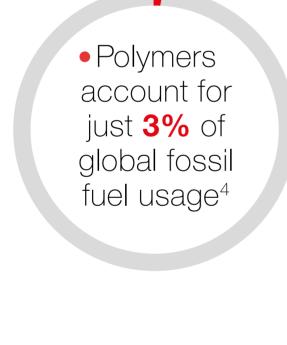
CPVC: Chlorinated polyvinyl chloride HDPE: High-density polyethylene : Polypropylene : Polystyrene : Polyethylene terephthalate

Significantly less energy is required for CPVC piping transportation and processing than copper, which also gives it a much lower potential to contribute to global warming.



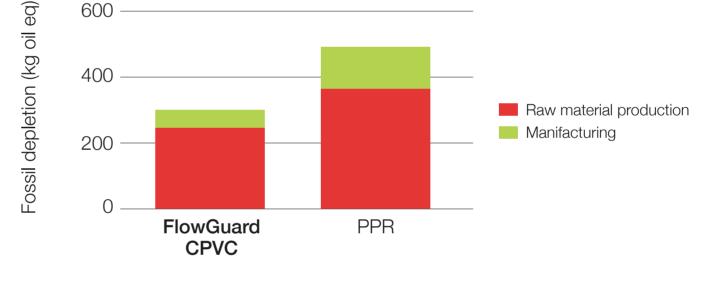


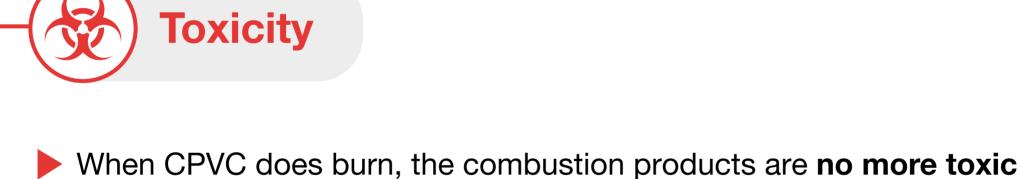
**Total Fossil Fuel Depletion** 



600

CPVC uses significantly less fossil fuels than PPR





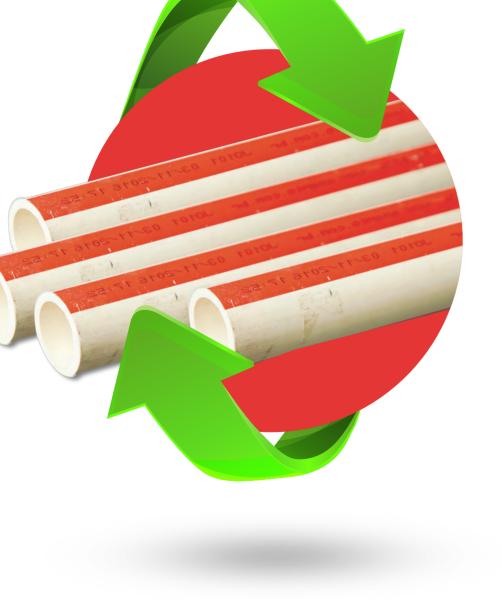
- than traditional building materials, such as Douglas Fir.5 Dioxins are commonly associated with plastics
- manufacturing. However, according to an analysis of over 1,900 test results from 169 large-scale commercial incinerator facilities, there is no relationship between the chlorine content of waste and dioxin emissions from combustion processes.6 PVC and CPVC production does not increase the quantity of dioxin in

manufacturing waste gases.7

Recyclability







The piping can also be ground into

window profiles and more.

CPVC is easily recycled as PVC piping,

- pellets and granules for use as: Floor fillings Floor coatings
  - Cable trays
  - Speed bumps
  - Car mats
- because it must often be reinforced with fiberglass or aluminum.

PPR piping, however, cannot be easily recycled

SOURCES

1. H. Sambele, Kapitel Nachchlorierte Polyvinylchloride Rohre, Technical University Berlin, 1993. 2. Life Cycle Inventory of the Production of Plastic and Metal Pipes for Use in Three Piping Applications, Prepared for The Plastic Pipe and Fittings Association by Franklin Associates, US, June 2008 3. Life Cycle Inventory of the Production of Plastic and Metal Pipes for Use in Three Piping Applications, Prepared for The Plastic Pipe and

> 6. American Society of Mechanical Engineers, 1995 7. Swedish Environmental Protection Agency, 1996

Fittings Association by Franklin Associates, US, June 2008 4. The Vinyl Institute 5. United States Testing Company, Inc., 1989



**Other countries** +32495545262