

# High Performance Marine Materials for the Coastal Infrastructure



## Overview

Structural polymer composites have been produced from recycled polymer blends as well as fiberglass reinforced recycled polymer blends (see “Structural Composites from Recycled Plastics” and “High Performance Highway and Marine Structural Elements from Polymer/Inorganic Composites”). These materials are suitable to be used as replacements for Creosote treated or Chromated Copper Arsenate treated wood structures, with no hazardous leachates. Prepared from recycled raw materials, structural whaler beams, marine pilings, and sheet pilings can be economically and effectively fabricated.

## Progress

Several different IMPB materials have undergone research, development, scale-up and commercialization. Currently commercial products are produced under AMIPP/Rutgers University license at Polywood, Inc. or Edison, New Jersey for a range of structural applications. Major project emphasis is towards identifying suitable marine end-uses for these products and then integrating the material design, structure design, fabrication, and construction phases.

## Tables and Figures



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