Steel

generates

its weight in

emissions!

Steel

emits

over

THE **ENVIRONMENTAL IMPACT OF DOCTOR BLADES: STEEL VS PLASTIC**

Both Steel and Plastic consume fossil fuels during their production. Since the extraction of these fuels are not recorded separate by material, we mark both steel and plastic as equal in their CO2 emissions at the raw materials stage.

PRODUCTION

Steel production is an extremely energy intensive process, generating 3.67 MTCO2E emissions for every short ton of steel produced*.

The emissions generated during steel production account for as much as 5% of the world's total GHG emissions! (MIT Study 2013)

The production of Plastic consumes significantly less energy than steel, emitting 1.5 to 2.4 metric ton of CO2 equivalent (MTCO2E) emissions per every short ton of plastic produced.*



more CO2

in transport

than plastic!

According to the EPA*, transportation of steel emits .37 MTCO2E emissions per ton.

The specific gravity (SG) of traditional steel is 7.0 to 7.8

TRANSPORTATION

Plastic (

is up to

According to the EPA*, transportation of plastic emits an average of .13 MTCO2E emissions per ton.

The specific gravity (SG) of plastics range from .83 to 1.55

LIGHTER

than steel!

O = O

YOUR FACILITY

Eco-Friendly Advantages of Steel Doctor Blades

Recyclable

Steel doctor blades are able to be recycled, however the majority of printers do not recycle steel blades due to ink contamination.

nid You Know. of doctor blades is about: 54k • 105k

feet of plastic

feet of steel

Eco-Friendly Advantages of Plastic Doctor Blades

Longer Blade Life

Eliminate Ink Spitting Reducing the material and ink waste caused by dirty print

Stop Anilox Scoring Reducing the energy consumed during re-engraving or the GHG emissions created during the production of new anilox rolls

Recapture CO2

WE'RE IN THIS TOGETH ER

"The earth is what we all have in common"

- Wendell Berry

To learn more about Flexo Concepts and how TruPoint plastic and polymer doctor blades could help reduce your facility's carbon footprint, click on any link below.



Request a Free Blade Sample

Schedule a **Call with a FC Consultant**



Visit

www.flexoconcepts.com

Flexo Concepts has made significant changes to reduce our carbon footprint. As of Fall 2017,

Flexo Concepts is powered 100% by Solar Energy!

Thanks to the 800+ solar panels on our roof, we can now proudly say your doctor blades are produced using sustainable energy!



*"Documentation for Greenhouse Gas Emission and Energy Factors Used in the Waste Reduction Model(WARM)" U.S. Environmental Protection Agency Office of Resource Conservation and Recovery, February 2016



