

PLASTIC MATERIALS & GLOBAL WARMING

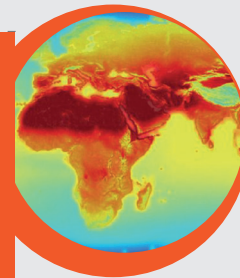
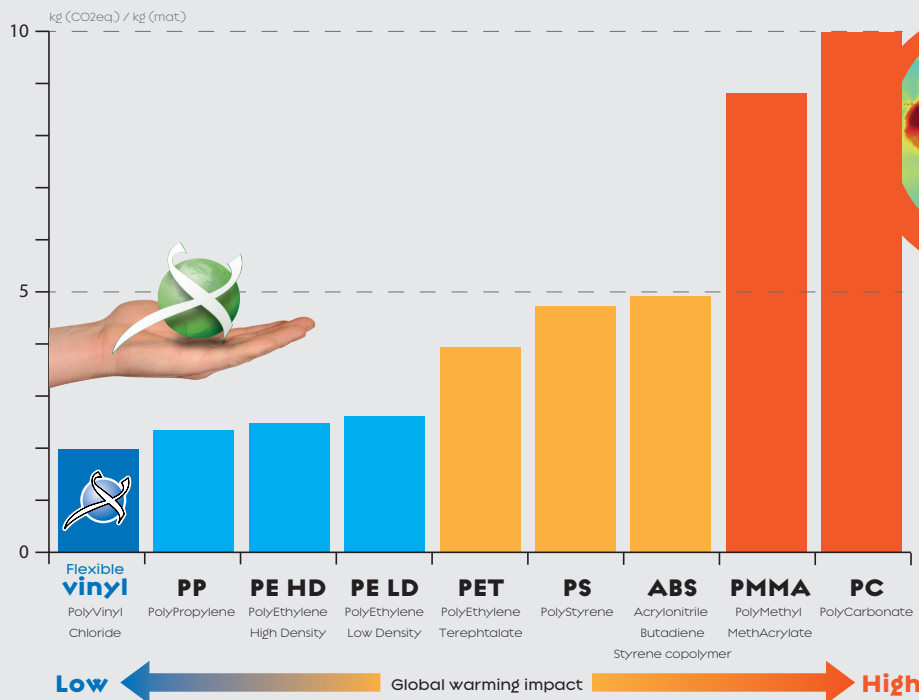
Like any products, plastic materials have impacts on earth's global warming and environment. To assess those impacts, plastics eco-profile studies use the carbon dioxide equivalents or global warming potential of the gases emitted all along the production process (from earth's resources extraction to plastics resins or compounds production).

Gas emissions can be very different according to the plastic material produced, leading to very different impacts on earth's global warming and environment. Make the right material choice has become essential in a context where earth is warming faster and faster to levels never met before and needs to be saved and preserved urgently.

Clearway help to make the right material choice to save and preserve earth.

PLASTIC MATERIALS PRODUCTION GLOBAL WARMING IMPACT

Carbon dioxide equivalents (20 year equiv) corresponding to the gross air emissions for the production of 1 kg of material resin or compound *



* The gross air emissions refer to the cumulative totals arising when all production processes operations are traced back from plastic material resin or compound production to the extraction of raw materials from the earth. Any gaseous emission that is thought to contribute to global warming is assigned a value equal to the equivalent amount of CO2 that would be needed to produce the same effect. Because the different gases react chemically in the atmosphere as a result of sunlight, their effect will change with time as they are changed chemically. Here CO2 equivalent values correspond to a 20 year effect. (For more details refer to data sources).

Data sources:

- Eco-profiles of the European Plastics Industry (vinyl: Ostermayer & Giegrich 2006; PS: Boustead 2006; Others: Boustead 2005) www.ica.plasticseurope.org
- Eco-profile of high volume commodity phthalate esters - European Council for Plasticizers and Intermediates (ECPI 2001) - www.ecpi.org

Note: CO2eq. values of vinyl and flexible vinyl based on a mix of PVC resin (65%) + Phthalate esters (35%) are similar within 2%.

High global warming impact plastics are often used in order to make more profits to the detriment of environment. Such practices have contributed to degrade the image of plastics in the public opinion instead that low global warming impact plastics such as flexible PVC are safe and environmental friendly. Due to its very low global warming potential air emissions and its highly efficient applications, such as strong thermal insulation,

Clearway flexible vinyl strips & sheets save and preserve earth's natural resources and environment.



ENVIRONMENT & SAFETY

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