

Sustainable Plastic Product Audit Checklist

1. Carbon footprint calculation (Send via e-mail or at onsite visit)

- a. Electricity usage at plant: Annual KW-h
 - i. 2000 or oldest available data: _____
 - ii. 2007: _____
 - iii. 2008: _____
- b. Natural gas usage at plant: Annual therms
 - i. 2000 or oldest available data: _____
 - ii. 2007: _____
 - iii. 2008: _____
- c. Petroleum fuels usage at plant: gallons or equivalent:
 - i. 2000 or oldest available data: _____
 - ii. 2007: _____
 - iii. 2008: _____
- d. Other fuel usage at plant: gallons or equivalent
 - i. 2000 or oldest available data: _____
 - ii. 2007: _____
 - iii. 2008: _____
 - iv. Type of Fuel: _____ Volume: _____
 - v. Type of Fuel: _____ Volume: _____
 - vi. Type of Fuel: _____ Volume: _____
 - vii. Type of Fuel: _____ Volume: _____
- e. Number of fire suppression release of CO₂ fire extinguishers
 - i. Propellant _____
 - ii. Number of releases _____
 - iii. Size of fire extinguisher _____
- f. Car travel: Total miles driven on company fleet vehicles per year _____
 - i. Average MPG for company fleet vehicles _____
- g. Total Air Travel miles for sales and executive personnel in company _____
- h. Total miles per year of transportation of plastic pellet by truck _____ rail _____
 from pellet manufacturing source to plastic manufacturing plant.
- i. Number of plastic bags and sheet products produced

Year	Plastic bags	Plastic Sheet	Other
2000 or oldest available data			
2007			
2008			

j. Amount of LDPE/HDPE used at the plant to make plastic products.

Year	LLDPE/LDPE	HDPE	Other Plastic
2000 or oldest available data			
2007			
2008			

k. Pounds of PIM and PCR recycled at the plant

Year	PIM	PCR	Other Plastic
2000 or oldest available data			
2007			
2008			

2. Waste generation (Send via e-mail or at onsite visit)

a. Recycling

- i. Total plastic scrap in pounds per year: _____
- ii. Diversion % of plastic scrap to grind: _____
- iii. Pounds of PIM recycled per year: _____
- iv. Pounds of PCR used per year: _____
- v. Pounds of paper saved for recycling per year: _____
- vi. Pounds of cardboard saved for recycling per year: _____
- vii. Pounds of metal saved for recycling per year: _____
- viii. Pounds of glass saved for recycling per year: _____
- ix. Pounds of wood saved for recycling per year: _____
- x. Pounds of other saved for recycling per year: _____
- xi. Diversion percentage at plant: _____

b. Solid waste disposal per year at plant.

- i. Number of trash pick ups _____
- ii. Size of trash containers in Cu yards _____
- iii. Weight of trash (base = 175 pounds per cu yard) _____
- iv. Pounds of liquid waste sent to disposal per year: _____

3. Life Cycle Analysis (Send via e-mail or at onsite visit)

- a. Production rate of plastic parts made: pounds per year total. _____
- b. Number of parts produced per year at plant. _____
- c. Floor space sq feet of manufacturing plant. _____
- d. Floor space sq feet of office. _____
- e. Water usage in gallons per year at plant. _____
- f. Number of employees at plant _____

4. Regulations for environmental compliance- rated in the following sheets. (Onsite visit)

- a. Liquid disposal
- b. Air emissions
- c. Pellet containment with OCS
- d. Recycling

4. Environmental Waste Regulatory Compliance (Onsite visit)

Ratings: 100 –90: Superior; 89 - 80: Excellent; 79 - 70: Good;
69 - 60: Fair; < 60: Needs Improvement

Inspections will be held in following areas in and around the manufacturing plant.

A. LIQUID DISPOSAL and HEAVY METAL FREE PLANT

- Auditor will review waste disposal permits for 2009.
 - Verify an appropriate liquid waste hauler.
 - Verify waste taken to proper certified disposal site.
- Auditor will review appropriate containment dykes around ink and solvent storage areas.
 - Verify procedures for spill containment around ink and solvent storage areas.
- Auditor will review color concentrates and inks are heavy metal free
 - Verify plant claim to be heavy metal free.
 - Verify suppliers certify that the inks and concentrates are heavy-metal free.
 - Verify testing of the products for heavy metals.
 - Received approval to call suppliers of inks and concentrates for verification

B. AIR EMISSIONS

- Auditor will review air emission permits for 2009.
 - Verify there are no violations.
 - Verify required incinerator unit is operating.
 - Verify required ozone destruction unit is operating.

C. PELLET CONTAINMENT

- Auditor will review Operation Clean Sweep participation and membership status.
- Auditor will inspect areas around office, shipping and receiving, storage bins, and manufacturing operations for loose pellets on the floor or in storm drains.
 - Verify clean-up procedures for trash and plastic waste posted in signs.

D. RECYCLING

- Auditor will review plant participation in clean up or recycling programs.
- Auditor will review plant uses PCR and PCR supplier that is certified by CIWMB or equivalent.
 - Verify recycled plastic is free from contaminants and recycled plastic is uniform in plastic type.
 - Verify recycled plastic identified as PIM or PCM.
 - Verify plant scrap properly segregated.
- Auditor will review plant uses PIM.
 - Verify plant scrap reprocessed in the plant or Plant scrap sold for recycling.