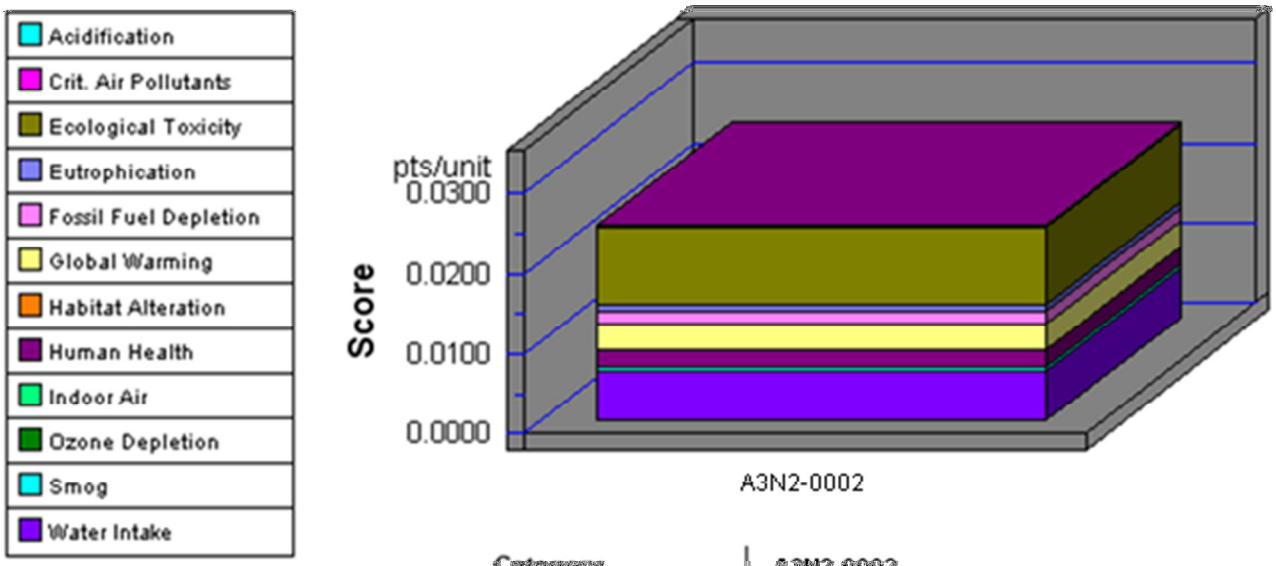
BEES Results: Inks - Specialty **Units: 300 sq. in.**
BioPreferred ID#A3N2-0002

Environmental Performance



Category	A3N2-0002
Acidification--3%	0.0000
Crit. Air Pollutants--8%	0.0001
Ecolog. Toxicity--7%	0.0007
Eutrophication--6%	0.0009
Fossil Fuel Depl.--10%	0.0016
Global Warming--28%	0.0030
Habitat Alteration--6%	0.0000
Human Health--13%	0.0022
Indoor Air--3%	0.0000
Ozone Depletion--2%	0.0000
Smog--4%	0.0005
Water Intake--8%	0.0004
Sum	0.0244

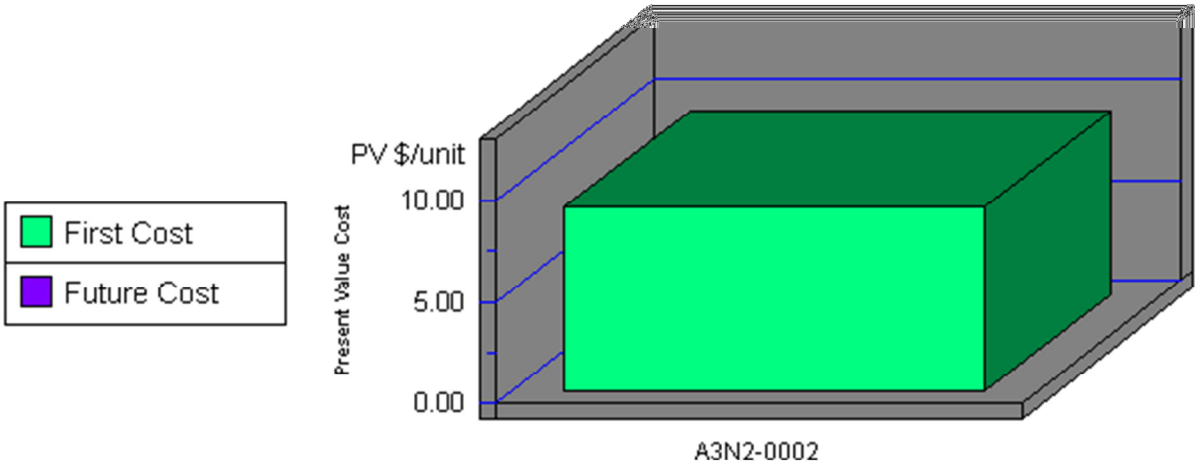
BEES Results: Inks - Specialty **Units: 300 sq. in.**
BioPreferred ID#A3N2-0002

Inks		
Impacts	Units	A3N2-0002
Acidification	millimoles H^+ equivalents	9.64E+02
Criteria Air Polutants	microDALYs	2.63E-01
Ecotoxicity	g 2,4-D equivalents	1.14E+02
Eutrophication	g N equivalents	2.77E+00
Fossil Fuel Depletion	MJ surplus energy	5.59E+00
Global Warming	g CO_2 equivalents	2.61E+03
Habitat Alteration	T&E count	0.00E+00
Human Health--Cancer	g C_6H_6 equivalents	1.39E+00
Human Health--NonCancer	g C_7H_8 equivalents	1.40E+03
Indoor Air Quality	g TVOCs	0.00E+00
Ozone Depletion	g CFC-11 equivalents	4.11E-07
Smog	g NO_x equivalents	1.78E+01
Water Intake	liters of water	4.21E+02
Functional Unit	----------	300 sq. in.

1 Following are more complete descriptions of units: Acidification: millimoles of hydrogen ion equivalents; Criteria Air Pollutants: micro Disability-Adjusted Life Years; Ecological Toxicity: grams of 2,4-dichlorophenoxy-acetic acid equivalents; Eutrophication: grams of nitrogen equivalents; Fossil Fuel Depletion: megajoules of surplus energy; Global Warming: grams of carbon dioxide equivalents; Habitat Alteration: threatened and endangered species count; Human Health-Cancer: grams of benzene equivalents; Human Health-NonCancer: grams of toluene equivalents; Indoor Air Quality: grams of Total Volatile Organic Compounds; Ozone Depletion: grams of chloroflourocarbon-11 equivalents; Smog: grams of nitrogen oxide equivalents; and Water Intake: liters of water.

BEES Results: Inks - Specialty **Units: 300 sq. in.**
BioPreferred ID#A3N2-0002

Economic Performance

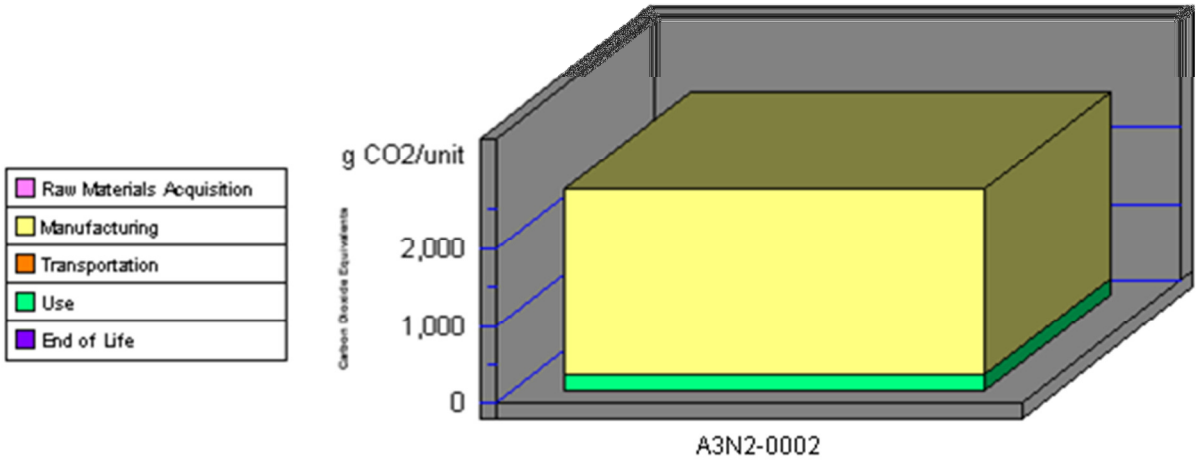


Category	A3N2-0002
First Cost	9.11
Future Cost-- 3.0%	0.00
Sum	9.11

*This is a consumable product. Therefore, future costs are not calculated.

BEES Results: Inks - Specialty **Units: 300 sq. in.**
BioPreferred ID#A3N2-0002

Global Warming by Life-Cycle Stage

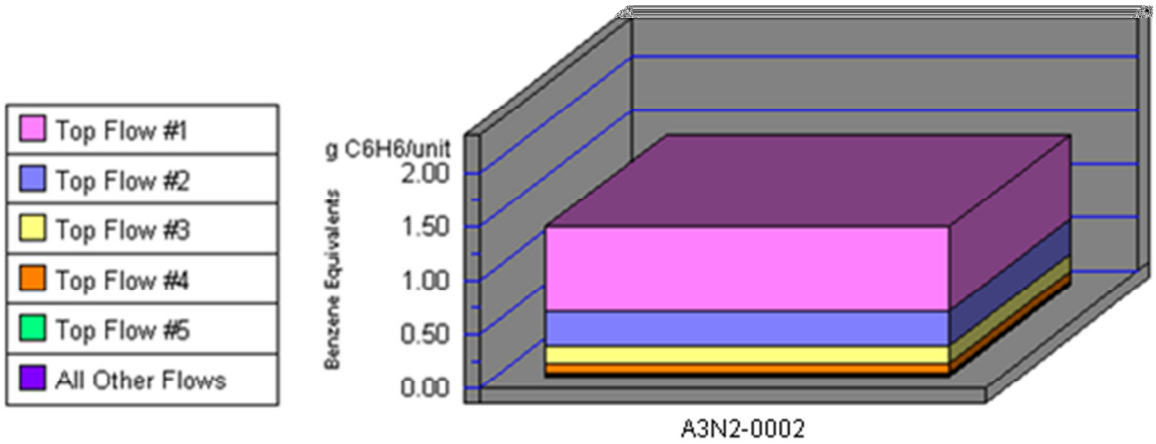


Note: Lower values are better

Category	A3N2-0002
1. Raw Materials	0
2. Manufacturing	2389
3. Transportation	2
4. Use	220
5. End of Life	0
Sum	2611

BEES Results: Inks - Specialty **Units: 300 sq. in.**
BioPreferred ID#A3N2-0002

Human Health Cancer by Sorted Flows*



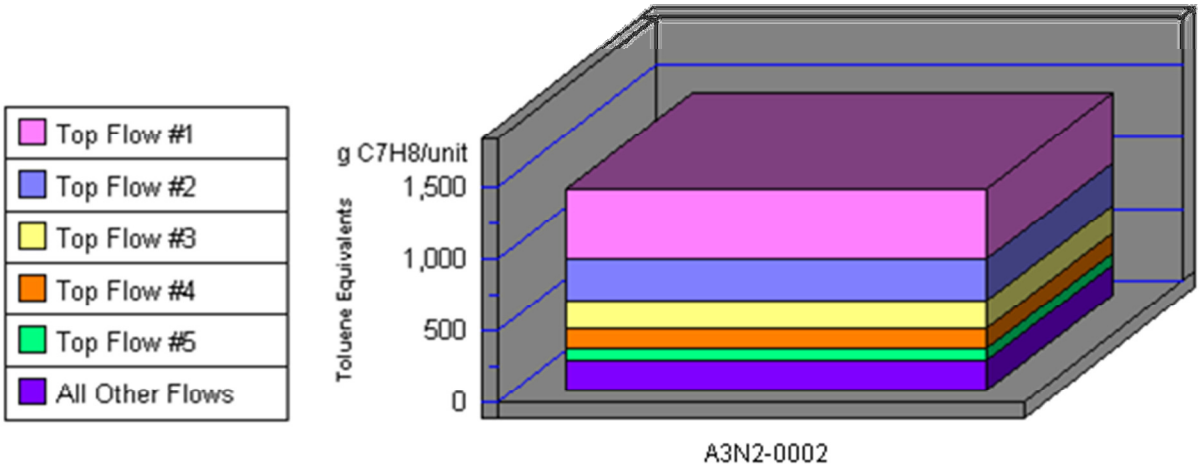
Note: Lower values are better

Category	A3N2-0002
Cancer-(a) Phenol (C6H5OH)	0.78
Cancer-(a) Arsenic (As3+, As5+	0.39
Cancer-(a) Dioxins (unspecific	0.15
Cancer-(a) Arsenic (As)	0.05
Cancer-(a) Benzene (C6H6)	0.01
All Others	0.02
Sum	1.39

*Sorted by five topmost flows for worst-scoring product

BEES Results: Inks - Specialty **Units: 300 sq. in.**
BioPreferred ID#A3N2-0002

Human Health Noncancer by Sorted Flows*



Note: Lower values are better

Category	A3N2-0002
Noncancer--(a) Mercury (Hg)	480.97
Noncancer--(w) Mercury (Hg+, Hg	289.06
Noncancer--(a) Dioxins (unspeci	194.26
Noncancer--(w) Barium (Ba++)	141.74
Noncancer--(a) Lead (Pb)	85.02
All Others	211.62
Sum	1,402.67

*Sorted by five topmost flows for worst-scoring product