ABS

1. Allgemeine Informationen

1.1 Beschreibung

The data presented here include the gross or cumulative energy requirements, the gross energy data expressed in terms of primary fuels, the energy data expressed as masses of fuels, the raw materials requirements, the demand for water, the air emissions, the corresponding carbon dioxide equivalents of these air emissions, the emissions to water, and the generated solid waste associated with the production of 1 kg of ABS (further information and flow charts at www.lca.plasticseurope.org).

1.2 Referenzen

#1 PlasticsEurope 2005: Eco-profiles of the European Plastics Industry. www.lca.plasticseurope.org March 2005.

1.3 Projektspezifika

Es liegen hierzu keine Angaben vor.

1.4 Weitere Metadaten

Quelle	PlasticsEurope
Projekte	
Bearbeitet durch	-
Datensatzprüfung	Kein Review
Ortsbezug	Europa
Zeitbezug	keine Angabe

1.5 Technische Kennwerte

Funktionelle Einheit	1 kg ABS

2. Inputs/Outputs

Outputs

Input	Menge	Einheit
ABS	1	kg

3. Umweltaspekte

3.1 Ressourcen

Ressource	direkt	inkl. Vorkette	Einheit
Air	0	493037	mg
Animal matter	0	0,00309	mg
Barytes	0	0,773	mg
Bauxite	0	356	mg
Bentonite	0	111	mg
Biomass (including water)	0	7480	mg
Biomass (liquid/gas)	0	0,0419	MJ
Biomass (solid)	0	0,0243	MJ
Calcium sulphate (CaSO4)	0	89,2	mg
Chalk (CaCO3)	0	239E-27	mg
Clay	0	0,0517	mg
Coal	0	186683	mg
Coal	0	5,32	MJ
Cr	0	0,0366	mg
Crude oil	0	979939	mg
Cu	0	83,8	mg
Dolomite	0	5,92	mg
Electricity	0	8,73	MJ
Fe	0	499	mg
Feldspar	0	151E-12	mg
Ferromanganese	0	0,418	mg
Fluorspar	0	7,99	mg
Gas	0	45,3	MJ
Gas/condensate	0	886813	mg
Geothermal	0	0,0204	MJ
Granite	0	222E-9	mg
Gravel	0	8534	mg
Hg	0	0,0127	mg
Hydro	0	0,207	MJ
Hydrogen	0	0,153	MJ
Industrial waste	0	0,0284	MJ
Lignite	0	80127	mg
Lignite	0	1,21	MJ
Limestone (CaCO3)	0	11323	mg
Metallurgical coal	0	197	mg

3.1 Ressourcen (Fortsetzung)

Ressource	direkt	inkl. Vorkette	Einheit
Mg	0	1190	mg
Municipal Waste	0	0,0499	MJ
N2	0	125747	mg
Ni	0	12,3	mg
Nuclear	0	2,48	MJ
O2	0	1035	mg
Oil	0	44,1	MJ
Oil fuels	0	43,2	MJ
Olivine	0	4,6	mg
Other fuels	0	43,4	MJ
Pb	0	0,832	mg
Peat	0	0,00159	MJ
Peat	0	179	mg
Phosphate as P2O5	0	40E-6	mg
Potassium chloride (KCl)	0	4385	mg
Quartz (SiO2)	0	831E-18	mg
Recovered energy	0	-3,98	MJ
Rutile	0	0,000126	mg
S (bonded)	0	0,386	mg
S (elemental)	0	6215	mg
Sand (SiO2)	0	687	mg
Shale	0	252	mg
Sodium chloride (NaCl)	0	7029	mg
Sodium nitrate (NaNO3)	0	0,00039	mg
Solar	0	0,000197	MJ
Sulphur	0	0,0575	MJ
Talc	0	20814	mg
Unspecified	0	0,299	MJ
Unspecified	0	40,1E-9	mg
Water Use - Public supply	0	3799740	mg
Water Use - River canal	0	48918587	mg
Water Use - Sea	0	30314384	mg
Water Use - Unspecified	0	66645063	mg
Water Use - Well	0	349600	mg
Wave/tidal	0	0,000296	MJ
Wind	0	0,0171	MJ
Wood	0	0,00631	MJ

3.1 Ressourcen (Fortsetzung)

Ressource	direkt	inkl. Vorkette	Einheit
Wood	0	724	mg
Zn	0	13,7	mg

3.2 Luftemissionen

Name	direkt	inkl. Vorkette	Einheit
Ag+compounds as Ag	0	0,000454	mg
aldehyde (-CHO)	0	49,5E-9	mg
aromatic HC not specified elsewhere	0	426	mg
As+compounds as As	0	0,00456	mg
asbestos	0	275E-9	mg
benzene C6H6	0	9,64	mg
Cd+compounds as Cd	0	0,000534	mg
CFC/HCFC/HFC not specified elsewhere	0	0,226	mg
CH4	0	29755	mg
Cl2	0	0,501	mg
CO	0	5146	mg
CO2	0	3051737	mg
Cr+compounds as Cr	0	1,19	mg
CS2	0	0,00189	mg
Cu+compounds as Cu	0	0,0342	mg
dichloroethane (DCE) C2H4Cl2	0	0,000944	mg
dioxin/furan as Teq	0	89,7E-27	mg
dust (PM10)	0	1681	mg
ethylbenzene C8H10	0	2,46	mg
ethylene C2H4	0	4,77	mg
F2	0	0,686	mg
H2	0	52,4	mg
H2S	0	0,0156	mg
H2SO4	0	90E-9	mg
HCl	0	79,5	mg
HCN	0	0,125	mg
HF	0	2,93	mg
Hg+compounds as Hg	0	0,00233	mg
hydrocarbons not specified elsewhere	0	4430	mg
mercaptan	0	0,0104	mg
metals not specified elsewhere	0	2,74	mg

3.2 Luftemissionen (Fortsetzung)

Name	direkt	inkl. Vorkette	Einheit
methylene chloride CH2Cl2	0	0,0014	mg
N2O	0	0,0115	mg
NH3	0	2,34	mg
Ni+compounds as Ni	0	2,17	mg
NMVOC	0	28,2	mg
NOX as NO2	0	5507	mg
organics	0	337	mg
organo-chlorine not specified elsewhere	0	0,526	mg
oxygen	0	30,8E-6	mg
Pb+compounds as Pb	0	0,122	mg
polycyclic hydrocarbons (PAH)	0	2,17	mg
propylene	0	3,53	mg
Sb+compounds as Sb	0	17,8E-6	mg
Se+compounds as Se	0	15,7E-6	mg
SOX as SO2	0	7964	mg
styrene	0	1,72	mg
toluene C7H8	0	1,22	mg
vinyl chloride monomer (VCM)	0	0,00067	mg
xylenes C8H10	0	0,485	mg
Zn+compounds as Zn	0	0,0146	mg

Luftemissionen (Aggregierte Werte)

Name	direkt	inkl. Vorkette	Einheit
CO2 Equivalents - 100 year equiv	0	3759689	mg
CO2 Equivalents - 20 year equiv	0	4920138	mg
CO2 Equivalents - 500 year equiv	0	3283606	mg

3.3 Gewässereinleitungen

Name	direkt	inkl. Vorkette	Einheit
acid as H+	0	7,3	mg
Al+compounds as Al	0	56,2	mg
ammonium compounds as NH4+	0	336	mg
AOX	0	10,5E-6	mg
As+compounds as As	0	0,000566	mg
benzene	0	0,418	mg
BOD	0	47,7	mg

3.3 Gewässereinleitungen (Fortsetzung)

Name	direkt	inkl. Vorkette	Einheit
BrO3--	0	0,00178	mg
Ca+compounds as Ca	0	267	mg
Cd+compounds as Cd	0	14,8E-6	mg
Cl-	0	3031	mg
ClO3--	0	1,51	mg
CN-	0	9,4	mg
CO3--	0	118	mg
COD	0	2227	mg
Cr+compounds as Cr	0	4,1E-6	mg
Cu+compounds as Cu	0	0,106	mg
detergent/oil	0	14,2	mg
dichloroethane (DCE)	0	14,8E-6	mg
dioxin/furan as Teq	0	13,9E-9	mg
dissolved chlorine	0	0,0106	mg
dissolved organics (non-hydrocarbon)	0	8,7	mg
dissolved solids not specified elsewhere	0	1051	mg
F-	0	0,184	mg
Fe+compounds as Fe	0	0,0348	mg
Hg+compounds as Hg	0	0,000353	mg
hydrocarbons not specified elsewhere	0	17,4	mg
K+compounds as K	0	137	mg
metals not specified elsewhere	0	190	mg
Mg+compounds as Mg	0	966	mg
Mn+compounds as Mn	0	0,000141	mg
Mo+compounds as Mo	0	0,00381	mg
Na+compounds as Na	0	779	mg
Ni+compounds as Ni	0	0,0776	mg
NO3-	0	73,8	mg
organo-chlorine not specified elsewhere	0	0,0907	mg
organo-silicon	0	74,2E-15	mg
organo-tin as Sn	0	39,3E-9	mg
other nitrogen as N	0	102	mg
other organics not specified elsewhere	0	0,000148	mg
P+compounds as P	0	116	mg
Pb+compounds as Pb	0	0,00113	mg
phenols	0	3,15	mg
S+sulphides as S	0	0,081	mg

3.3 Gewässereinleitungen (Fortsetzung)

Name	direkt	inkl. Vorkette	Einheit
SO4--	0	8694	mg
Sr+compounds as Sr	0	0,000162	mg
Suspended Solids	0	2199	mg
TOC	0	490	mg
vinyl chloride monomer (VCM)	0	14,3E-6	mg
Zn+compounds as Zn	0	0,0299	mg

3.4 Abfälle

Name	direkt	inkl. Vorkette	Einheit
Construction waste	0	19,5	mg
Inert chemical	0	3982	mg
Metals	0	45,4	mg
Mineral waste	0	40168	mg
Mixed industrial	0	593	mg
Municipal solid waste	0	-4328	mg
Paper	0	0,826	mg
Plastic containers	0	1,16E-6	mg
Plastics	0	1843	mg
Putrescibles	0	0,388	mg
Regulated chemicals	0	235166	mg
Slags ash	0	17323	mg
Tailings	0	3503	mg
Unregulated chemicals	0	4143	mg
Unspecified refuse	0	7899	mg
Waste returned to mine	0	36097	mg
Waste to incinerator	0	14162	mg
Waste to recycling	0	3082	mg
Wood waste	0	14,3	mg
Wooden pallets	0	0,000136	mg