

KF

ENVIRONMENTAL PRODUCT DECLARATION

COMPANY INFORMATION:

REC Indovent AB

info@rec-indovent.se

www.rec-indovent.se

Quality certified

ISO 9001:2015

Environmental certified

ISO 14001:2015

Following data concerns KF with standard length 6 m and diameter of 132 mm.

1. PRODUCT DESCRIPTION

KF is a flexible ventilation hose.
KF has type approval certificate no 0835.

For recommended range of application we refer to the product catalogue.

2. DECLARATION OF CONTENTS

The hose is made of PVC and it has a steel wire helix. The product does not contain substances that are included in the Priority guide PRIO from Swedish National Chemical Inspectorate.

3. INPUT MATERIALS

Material:	weight-%	weight(kg)
Steel wire	34,4	0,356
PVC	65,6	0,679
Total:		1,035

Additives: Flame retardant epoxidised barium/zinc-stearate.

The product consists of 100 % virgin material.

Energy consumption during material production:

Material:	MJ/KF:
PVC	42,86
Steel wire	1,92
Total:	44,78

Total emissions to water during material production (expressed as g/KF):

Chloride (Cl ⁻)	9,51
Sodium (Na ⁺)	5,91
Suspended material	1,38
COD	0,26
Dissolved compounds	0,18
Total nitrogen (N _{tot})	0,044

Total emissions to air during material production (expressed as g/KF):

Carbon dioxide (CO ₂)	1284,54
Nitrogen oxides (NO _x)	5,96
Sulphur oxides (SO _x)	5,88
Methane (CH ₄)	4,21
Carbon monoxide (CO)	2,92
Dust	1,11

4. PRODUCTION

Energy consumption during production phase:

No data available

Emissions to water: Does not exist

Emissions to air: Does not exist

Production waste (rest products):

< 1 % of used material per product form production waste.

5. DISTRIBUTION OF FINAL PRODUCT

Packing material: Cardboard boxes and wooden loading pallet. The packing material can be recycled and then re-used, producing either new material or energy.

REC Indovent is affiliated with REPA. (Return system for packing material)

Transportation:

Average emissions from transportation by truck for 100 km (26 tonnes), expressed with characterization factors for a functional unit, weight 1,035 kg:

GWP	0,005 kg CO ₂ -equivalents
AP	0,00002 kg SO ₂ - equivalents
POCP	0,003 g ethene-equivalents
EP	0,000004 kg PO ₄ ³⁻ -equivalents

The majority of REC Indovent ABs transportations are carried out by truck.

6. USING PHASE

The product is emission free during use.

7. DISPOSED PRODUCT

The disposed product does not contain environmentally hazardous waste. When PVC is incinerated, hydrochloric acid is formed, which can cause acidification. If the incineration is not optimized, toxic chlorinated dioxins and dibenzofuranes might be formed. Materials that are parts of the disposed product should be separated in order to enable re-use alternatively recycling.

8. ENVIRONMENTAL IMPACT

Environmental impact that the largest emissions are associated with:

Chloride+sodium	No environmental effect
Carbon dioxide	Greenhouse effect
Nitrogen oxides	Ground level ozone, acidification, eutrophication
Sulphur oxides	Acidification
Methane	Greenhouse effect
Carbon monoxide	Deterioration of absorption of oxygen of the blood

Flame retardant: Exposed barium/zinc-stearate is considered harmless from both health- and environmental point of view*.

9. OTHER INFORMATION

Characterization factors according to SS-EN15804. Calculated according to the standard SS-EN 15978. TYPE II - ISO 14025

*Swedish Environmental Protection Agency

Characterization factors for production phase:

GWP	(Global Warming Potential)
AP	(Acidification Potential)
POCP	(Photochemical Ozone Creation Potential)
EP	(Eutrophication potential)

1,48 kg CO ₂ - equivalents
0,01kg SO ₂ - equivalents
1,87 g ethene-e equivalents
0,00092 kg PO ₄ ³⁻ - equivalents