

Environmental Product Declaration, EN15804, Phlox

Designed by Raf Simons.

90% Cotton, 10% polyester

Weight – 920 g/lin. meter

Width – 138 cm

Environmental Product Declaration

Environmental Product Declaration (EPD) is an assessment of the environmental impacts for a product from cradle to grave. The calculations in the LCA model is based on EN15804. The calculations also follow principles of the ISO 14040 standards for life cycle assessment. This EPD is based on an EPD model developed by Kvadrat and FORCE Technology using the LCA software GaBi6. Data is from internationally recognized LCA databases combined with literature sources and knowledge from Kvadrat and their suppliers and is further described in the background documentation.

Environmental profile

The three tables show the total environmental impacts of the product for different impact categories and life cycle phases by using the terminology in the European standard for environmental product declarations (EPD) of building products, EN 15804. A1-A3 covers the raw material production, transport, and processing into textile. A4 covers transport of textiles. C4 covers end-of-life impacts from landfilling and incineration. D covers the benefits from end-of-life treatment, including avoided production due to energy recovery and recycling.

Environmental impact

Environmental impact	Unit	A1-A3	A1	A2	A3	A4	C4	D	Total
Global warming Potential	kg CO ₂ eq.	4,7E+00	4,5E+00	1,8E-01	4,3E-02	4,8E-02	2,8E-01	-5,6E-02	5,0E+00
Ozone Depletion Potential	kg CFC 11 eq.	1,9E-09	2,6E-14	2,8E-17	1,9E-09	8,4E-18	8,0E-10	-7,7E-16	2,7E-09
Acidification Potential	kg SO ₂ eq.	1,9E-02	1,4E-02	4,0E-03	2,4E-04	1,9E-04	2,1E-04	-6,1E-05	1,9E-02
Eutrophication Potential	kg (PO ₄) ³⁻ eq.	2,0E-02	2,0E-02	4,7E-04	3,3E-05	4,8E-05	4,7E-04	-8,6E-06	2,1E-02
Photochemical Ozone Formation	kg C ₂ H ₄ eq.	8,9E-04	7,6E-04	1,1E-04	2,1E-05	-7,3E-05	6,8E-05	-5,8E-06	8,8E-04
Abiotic Depletion - Elements	kg Sb eq.	1,1E-05	1,1E-05	9,3E-09	2,8E-08	4,3E-09	6,1E-09	-9,6E-09	1,1E-05
Abiotic Depletion - Fossil fuels	MJ, net calorific value	6,0E+01	5,7E+01	2,3E+00	7,2E-01	6,5E-01	5,3E-01	-8,2E-01	6,0E+01

kvadrat

Resource use	Unit	A1-A3	A1	A2	A3	A4	C4	D	Total
Use of renewable primary energy excluding renewable primary energy resources used as raw materials	MJ, net calorific value	3,8E+01	3,7E+01	5,1E-02	1,4E+00	3,7E-02	3,5E-02	-2,0E-01	3,8E+01
Use of renewable primary energy resources (primary energy and primary energy resources used as raw materials)	MJ, net calorific value	9,9E+00	9,9E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	9,9E+00
Total use of renewable primary energy resources (primary energy and primary energy resources used as raw materials)	MJ, net calorific value	4,8E+01	4,7E+01	5,1E-02	1,4E+00	3,7E-02	3,5E-02	-2,0E-01	4,8E+01
Use of non-renewable primary energy excluding non-renewable primary energy resources used as raw materials	MJ, net calorific value	6,5E+01	6,2E+01	2,3E+00	8,2E-01	6,6E-01	5,8E-01	-9,8E-01	6,5E+01
Use of non-renewable primary energy resources used as raw materials	MJ, net calorific value	1,5E+00	1,5E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	1,5E+00
Total use of non-renewable primary energy resources (primary energy and primary energy resources used as raw materials)	MJ, net calorific value	6,6E+01	6,3E+01	2,3E+00	8,2E-01	6,6E-01	5,8E-01	-9,8E-01	6,6E+01
Use of secondary materials	kg	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00
Use of renewable secondary fuels	MJ, net calorific value	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00
Use of non-renewable secondary fuels	MJ, net calorific value	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00
Net use of fresh water	m ³	3,9E-01	3,9E-01	1,1E-04	1,9E-04	4,6E-05	6,5E-04	-1,7E-03	3,8E-01

Waste categories and output flows	Unit	A1-A3	A1	A2	A3	A4	C4	D	Total
Hazardous waste disposed	kg	0	0	0	0	0	0	0	0,00
Non-hazardous waste disposed	kg	5,2	5,2	0,006	0,03	0,002	0,4	-0,10	5,52
Radioactive waste disposed	kg	0,002	0,002	2,7E-06	1,2E-05	7,9E-07	1,5E-05	-6,4E-05	2,45E-03

The results are presented per square meter of textile. Comma is used as a decimal separator