

Product



Photovoltaic (PV) frameless module

Published 2024-01-19

Solar module used as a component for PV system

BVB ID	170511	Type of product	Article/product
BSAB code	SHD - Solkraftverk	Type of use	Utomhus
BK04 code	20010 Solfångarsystem	Supplier	SoliTek Cells



Total
Accepted



Contents: Electronics
Accepted



Contents: Other
Accepted



Lifecycle
Accepted



BREEAM® SE

Product data

Content reporting

Total weight of product: 30,000g

The product includes the following listings



Utfasningsämne



SIN



Potentiell PBT/vPvB



Riskminskningsämne

Contents: Other

	Component/Substance	Quantity/vol in the component	Quantity/vol in the product	CAS	EC	Alloy	H-indication / Listings	Self-classification
✓	Back solar glass	-	46.41	-	-	-	-	-

↳ Natriumoxid	$13,4841 \leq x$ $0809999 \leq 14,1758999 \leq x$ %	$6,25797$ 8779999 9995%	1313-59-215-208- 3 9	-	-	-
↳ Magnesiumoxid (MgO), Calciner magnesia, Magnesium oxide, E 530	$3,9 \leq x$ $\leq 4,1\%$	$1,80998$ 9999999 $9998 \leq x$ $\leq 1,90280$ 9999999 9997%	1309-48-215-171- 4 9	-	-	-
↳ Dipotassium oxide	$0,0302 \leq x$ $\leq 0,031\%$	$0,01401$ $582 \leq x$ $\leq 0,01438$ 7099999 999998 %	12136-235-227- 45-7 6	-	-	-
↳ Järn(III)oxid synonym C.I. Pigment Brown 7, C.I. Pigment Red 102, C.I. Pigment Red 101 eller järnglimmer	$0,0973 \leq x$ $\leq 0,1026$ %	$0,04515$ $693 \leq x$ $\leq 0,04761$ 6659999 99999%	1309-37-215-168- 1 2	-	-	-
↳ Kiseldioxid synonym diatomitjord, kiselgur, amorf kiselsyra, C.I. 77811, E 551	$72,15 \leq x$ $\leq 75,85\%$	$33,4848$ $15 \leq x$ $\leq 35,2019$ 8499999 999%	7631-86-231-545- 9 4	-	-	-
↳ Aluminiumtrioxid Aluminiumoxid	$1,4624 \leq x$ $\leq 1,537\%$	$0,67869$ 9839999 $9999 \leq x$ $\leq 0,71332$ 17%	1344-28-215-691- 1 6	-	-	-

↳ Kalciumoxid 9,75 ≤ x 4,52497 1305-78-215-138-
 synonym lime ≤10,25% 4999999 8 9 - - -
 9995 ≤ x
 ≤4,75702
 5%

∨ **Front glass** - 46.51 - - - - -

↳ Järn(III)oxid synonym C.I. Pigment Brown 7, C.I. Pigment Red 102, C.I. Pigment Red 101 eller järnglimmer	0,0097 ≤ x ≤0,0103 %	0,00451 147 ≤ x ≤0,00479 0529999 9999994 %	1309-37-215-168- 1 2 - - -	-	-	-
↳ Kiseldioxid synonym diatomitjord, kiselgur, amorf kiselsyra, C.I. 77811, E 551	70,3956 ≤ x ≤74,0056 %	32,7409 9356 ≤ x ≤34,4200 0455999 9995%	7631-86-231-545- 9 4 - - -	-	-	-
↳ Aluminiumtrioxid Aluminiumoxid	0,4881 ≤ x ≤0,5124 %	0,22701 5309999 99997 ≤ x ≤0,23831 7239999 99996%	1344-28-215-691- 1 6 - - -	-	-	-
↳ Dipotassium oxide	0,2924 ≤ x ≤0,3074 %	0,13599 524 ≤ x ≤0,14297 1739999 99999%	12136-235-227- 45-7 6 - - -	-	-	-
↳ Svaveltrioxid	0,2242 ≤ x ≤0,2365 %	0,10427 542 ≤ x ≤0,10999 6149999 99999%	7446-11- 09 - - -	-	-	-
↳ Natriumoxid	12,9675 ≤ x ≤13,6315 %	6,03118 4249999 5999 ≤ x ≤6,34001 065%	1313-59-215-208- 3 9 - - -	-	-	-
↳ Kalciumoxid synonym lime	8,678 ≤ x ≤9,1228 %	4,03613 78 ≤ x ≤4,24301 428%	1305-78-215-138- 8 9 - - -	-	-	-

↳	Magnesiumoxi (MgO), Calcine magnesia, % Magnesium oxide, E 530	4,29 ≤ x ≤ 4,5151 9998 ≤ x ≤ 2,09997 301%	1,99527 8999999 4	1309-48-215-171- 9	-	-	-
∨	Junction box	-	0.28	-	-	-	-
↳	Koppar	≤ 10%	≤ 0,02800 0000000 000004 %	7440-50-231-159- 8	6	-	-
∨	POE encapsulant film	-	3.05	-	-	-	-

↳ Ethylene-1-octene copolymer	$90 \leq x \leq 95\%$	$2,745 \leq x \leq 2,8975\%$	26221-73-8	Saknas	-	-	-
↳ Titanium, (butyl phosphate, ethyl alcohol, isopropyl alcohol) complexes CAS# 109037-78-7	$1 \leq x \leq 5\%$	$0,0305 \leq x \leq 0,1525\%$	-	-	-	-	-
↳ 6,6'-di-tert-butyl-4,4'-diethyl-2,2'-methylene-diph CAS# 88-24-4	$1 \leq x \leq 5\%$	$0,0305 \leq x \leq 0,1525\%$	-	-	-	-	-
↳ bis(α,α -dimethylbenzyl)peroxide	$\leq 1\%$	$\leq 0,0305\%$	80-43-3	201-279-3	-	H242 H315 H319 H360D H411	-

Potentiell PBT/vPv B Riskminskningsämne SIN Utfasningsämne

Contents: Electronics 3.05%

Component/Substance	Quantity/vol in the produ	CAS	EC	Alloy	H-indication / Listings	Self-classification
↳ Solar cell	2.24	-	-	-	-	-

↳ Kisel	1,568000 00000000 7440-21-3 231-130-8 - 03 ≤ x ≤ 2,15040 00000000 003%	-	-
↳ Aluminium (fast)	0,022400 00000000 7429-90-5 231-072-3 - 0003 ≤ x ≤ 0,06720 00000000 0001%	-	-
↳ Silver	0,011200 00000000 7440-22-4 231-131-3 - 0002 ≤ x ≤ 0,01859 2%	-	-
↳ Aluminiumtrioxid Aluminiumoxid	4,480000 00000000 1344-28-1 215-691-6 - 1E-06 ≤ x ≤ 1,56800 00000000 002E-05 %	-	-
↳ Trisilicon tetranitride	6,52288E -06 ≤ x 12033-89- 5 234-796-8 - ≤ 1,35475 20000000 002E-05 %	-	-
✓ Copper ribbons	0.71 - - - -	-	-

↳ Tenn	0,029167 51 ≤ x ≤ 0,06329 934%	7440-31-5 231-141-8-	-	-
↳ Koppar	0,430999 82 ≤ x ≤ 0,70985 8%	7440-50-8 231-159-6-	-	-
↳ Bly	0,020299 61 ≤ x ≤ 0,04217 4%	7439-92-1 231-100-4-	<u>H360FD</u> <u>H362</u>	-

Begränsningslistan (REACH XVII)
Kandidatämne (Repr.)
Pb
SIN
Utfasningsämne

The product includes the following listings  Pb


-  Utfasningsämne  Kandidatämne (Repr.)  SIN
-  Begränsningslistan (REACH XVII)


Assessment


 Total
Accepted


 Contents
Accepted


0. Declaration of Contents

-  Supplier Certificate of Substance Content and Concentrations corresponding to assessment against level Accepted for each property criterion


-  Category 1A or 1B for reproductive toxicity (H360): 0.03% - 0.3% of individual substance


-  Potential PBT and vPvB substances: = 0.1% (rec) of individual substance(s) is reported but a supplier Certificate of Substance Content and Concentrations is missing

-  Environmentally hazardous substance (H411): = 2.5% of the substance(s), is reported

 Contents: Electronics
Accepted


E. Electronics


-  Reconciliation against the candidate list has been made for electronics, RoHS certificate for the product is available and weight by % breakdown of electronics vs. Other substances/components. Assessment against Accepted.

-  Specifically designated substances and substance groups: Contains brominated flame retardants, does not fulfil the requirements for "recommended"


 Lifecycle
Accepted


1. Constituent materials and raw materials

-  <50% renewable raw materials

-  Recycled material content <50%

2. Manufacture/production of the article

-  Data on emissions during production is not available.

-  Data on energy consumption is not available.

3. Packaging

-  The packaging can be recycled or energy recovered from it.

5. Refuse and demolition

-  Reutilisation/reuse is possible for =70% of the product.



Material recovery and recycling is possible for =70% of the product.



The product does not give rise to hazardous waste during use/building construction.



End-of-service-life products or parts of the item must be treated as electronic waste.

Sustainable supply chains

Has your company or organisation relevant certificates regarding Social Responsibility?

Yes , ISO 14001, ISO 9001, C2C, gold

Has your company or organisation a written Policy or a Code of Conduct dealing with Social Responsibility in Supply Chain?

Yes

What is included in the policy/Code of Conduct?

Arbetsrättslagstiftning, Arbetsmiljö, Miljö,

Is the policy/Code of Conduct made available to employees and distributed in the product's supply chain?

Yes

Is someone in your company's management team appointed responsible for work and routines regarding Social Responsibility?

Yes

Is there a procedure developed to follow up the product's supply chain with regard to Sustainable Supply Chains?

Yes

What is included in the procedure?

Kartläggning - av produktens leverantörskedja, Riskanalys - identifiering av risker i produktens leverantörskedja, Handlingsplan - hur identifierade risker ska hanteras, Uppföljning - av identifierade risker samt av varans leverantörer/underleverantörer, Avvikelsehantering - hur avvikelser ska hanteras

Articles

Name	Article number	GTIN/EAN	RSK	E-number
SOLID Bifacial B.60 xxx; (315 to 380 in step of 5W)	SOLID Bifacial B.60...	-	-	-

SOLID Agro**B.40 xxx;****(xxx=220 to
265 in step of
5W)**

SOLID Agro B.40 x... -

-

-

SOLID Bifacial**B.108 xxx;****(xxx=370 to
445 in step of
5W)**



SOLID Bifacial B.10... -

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Documentation

Documentation used as the basis for assessment

Name	File size	Created
 Produktbild	884.75 kB	2023-11-27
 Byggvarudeklara...	69.78 kB	2024-01-18

Other documents

Name	File size	Created
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No documents

Operation and maintenance related documents

Name	File size	Created
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**Tekniskt datablad** 568.43 kB

2023-11-27

**Tekniskt datablad** 821.73 kB

2023-11-27

**Tekniskt datablad** 451.33 kB

2023-11-27

**Monteringsanvis...** 1.61 MB

2023-11-27

Sustainable supply chains

Name

File size

Created

No documents

Certifications

Miljöbyggnad



4.0

Ind 15

The BSAB code is not encompassed within MB! (Product has documentation equivalent to an e-BVD, which corresponds to the GOLD level in MB 3.0).

3.0 / 3.1 / 3.2**Ind 13**

The BSAB code is not encompassed within MB! (Product has documentation equivalent to an e-BVD, which corresponds to the GOLD level in MB 3.0).

Ind 14

The BSAB code is not encompassed within MB, but the product does not contain any phase-out or risk reduction substances, which is equivalent to GOLD. Note! Emissions are not taken into consideration!

2.1 / 2.2**Ind 14**

The BSAB code is not encompassed within MB, but the product has a public and full BVD3, which is equivalent to GOLD

Ind 15

The BSAB code is not encompassed within MB. The product does not contain any phase-out substances according to KEMI's definition above the classification limits, which corresponds to the GOLD standard.

BREEAM-SE**BREEAM® SE****2017 v.1.1****Mat07**

Product does not contain any phase-out substances (according to KEMI's definition and EDS Cat1/ Cat2) above the classification limits (2p.)- Installation product

2013 v.2.0**Mat08**

The BSAB code is not encompassed within BREEAM, but the product does not contain any phase-out substances above the classification limits.