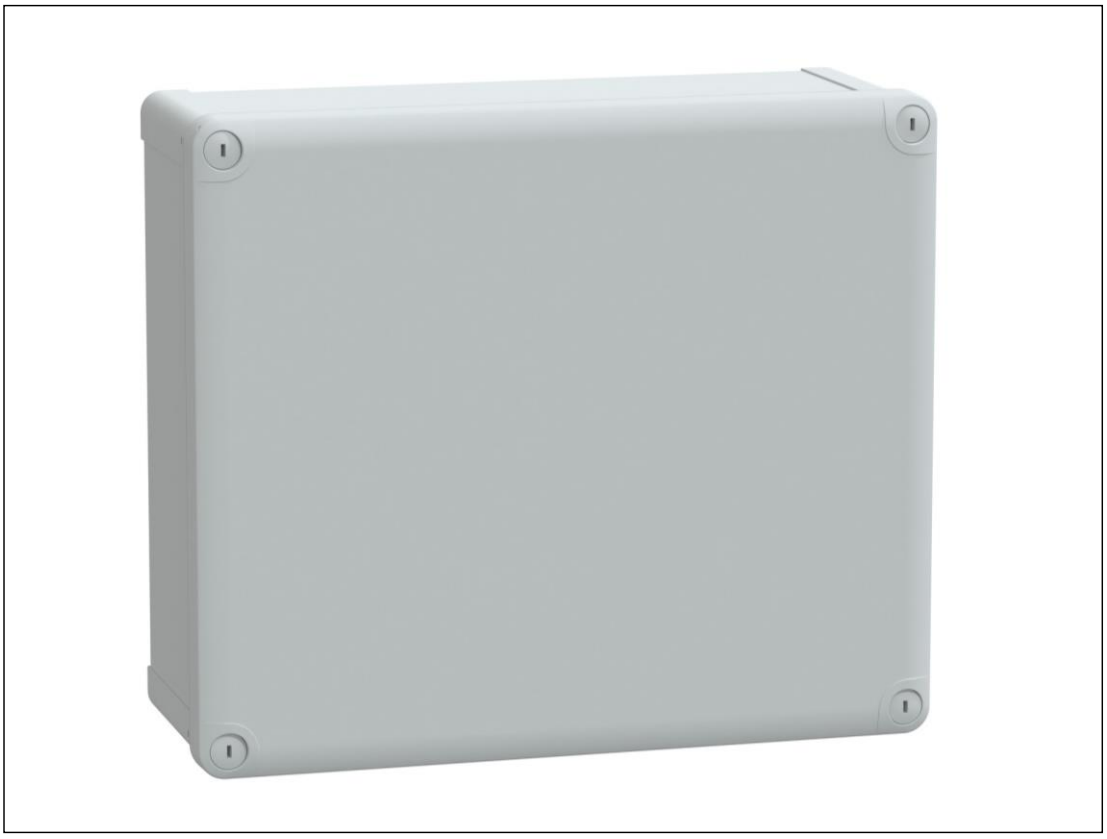
Product Environmental Profile

PanelSeT TBS

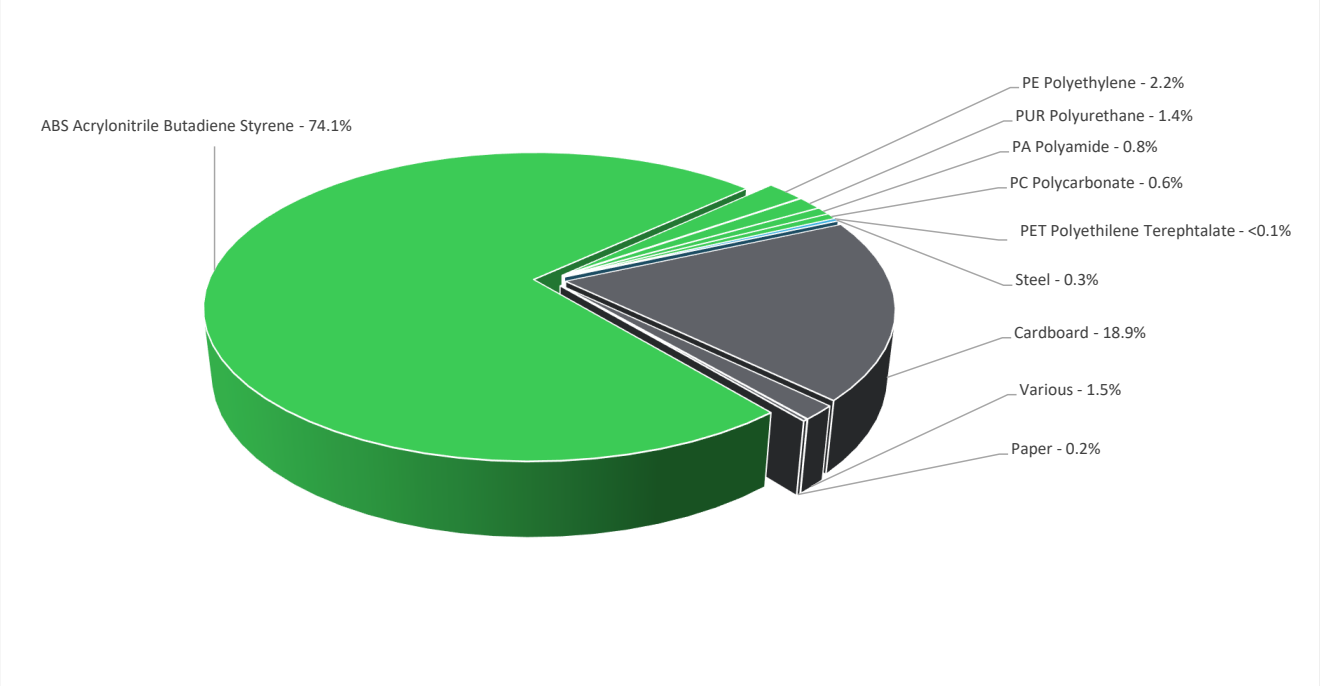


General information

Reference product	PanelSeT TBS - NSYTBS342912
Description of the product	PanelSeT TBS- ABS industrial boxes are Class II ABS boxes for conventional applications (IK07) with the usual constraints.The PanelSeT TBS series is a range of multifunction wall mounted, insulating, industrial enclosures that are easy to install using a flat screwdriver.The ABS enclosures provide 3 wall-mounting methods: directly by the holes on the base, by channels outside the sealed area or by fixing wrap-over clamps. PanelSeT TBS are made with 45% of pre-consumer recycled ABS.
Description of the range	Single product
Functional unit	Protect people from direct contact with live active parts and ensure the grouping of control, command and protection devices in a single enclosure or cabinet having the following dimensions H x L x D or an assembly of X enclosures or cabinets having the following dimensions H x L x D, with rated current In, while protecting them against mechanical impacts (IK) and the penetration of solid objects and liquids (IP), according to the appropriate use scenario, and for the reference service life of the product of 20 years.
Specifications are:	H = 341 mm W = 291 mm D = 128 mm X = 1 IP = IP66- IEC 60529 IK = IK07-IEC 62262

Constituent materials

Reference product mass	1476 g	including the product, its packaging and additional elements and accessories



Plastics	79.1%
Metals	0.3%
Others	20.6%

Substance assessment

Details of ROHS and REACH substances information are available on the Schneider-Electric Green Premium website
https://www.se.com/ww/en/work/support/green-premium/

Additional environmental information

End Of Life	Recyclability potential:	**0.36%**	The recyclability rate was calculated from the recycling rates of each material making up the product with the exception of data using the ESR database. For materials or components using the ESR database or the absence of data the conservative hypothesis "0% recyclability" was used.

Environmental impacts

Reference service life time	20 years			
Product category	Unequipped enclosures			
Installation elements	The product does not require special installation procedure and requires little to no energy to install. The disposal of the packaging materials are accounted for during the installation phase (including transport to disposal).			
Use scenario	There is no use scenario to be considered			
Time representativeness	The collected data are representative of the year			
Technological representativeness	The modules of technologies such as material production, manufacturing processes and transport technology used in the PEP analysis (LCA EIME in the case) are Similar and representaive of the actual type of technologies used to make the product.			
Geographical representativeness	Europe			
Energy model used	**[A1 - A3]**	**[A5]**	**[B6]**	**[C1 - C4]**
	Hungary	Electricity Mix; Low voltage; 2018; Europe, EU-27	Electricity Mix; Low voltage; 2018; Europe, EU-27	Electricity Mix; Low voltage; 2018; Europe, EU-27

Detailed results of the optional indicators mentioned in PCRed4 are available in the LCA report and on demand in a digital format - Country Customer Care Center - http://www.schneider-electric.com/contact

Mandatory Indicators		PanelSeT TBS - NSYTBS342912						
Impact indicators	**Unit**	**Total (without Module D)**	**[A1 - A3] - Manufacturing**	**[A4] - Distribution**	**[A5] - Installation**	**[B1 - B7] - Use**	**[C1 - C4] - End of life**	**[D] - Benefits and loads**
Contribution to climate change	kg CO2 eq	1.16E+01	5.41E+00	2.93E+00	3.45E-01	0*	2.94E+00	-3.68E-01
Contribution to climate change-fossil	kg CO2 eq	1.14E+01	5.19E+00	2.93E+00	3.31E-01	0*	2.91E+00	-3.31E-01
Contribution to climate change-biogenic	kg CO2 eq	2.64E-01	2.15E-01	0*	1.46E-02	0*	3.43E-02	-3.70E-02
Contribution to climate change-land use and land use change	kg CO2 eq	1.30E-05	1.30E-05	0*	0*	0*	0*	0.00E+00
Contribution to ozone depletion	kg CFC-11 eq	2.73E-06	1.50E-07	2.57E-06	4.55E-09	0*	3.00E-09	-1.41E-08
Contribution to acidification	mol H+ eq	3.51E-02	1.98E-02	1.20E-02	9.14E-04	0*	2.33E-03	-1.70E-03
Contribution to eutrophication, freshwater	kg $(PO4)^{3-}$ eq	3.58E-05	2.62E-05	3.41E-07	7.50E-06	0*	1.77E-06	-5.39E-06
Contribution to eutrophication marine	kg N eq	1.21E-02	5.23E-03	5.48E-03	3.94E-04	0*	1.01E-03	-4.92E-04
Contribution to eutrophication, terrestrial	mol N eq	1.27E-01	5.36E-02	5.94E-02	2.77E-03	0*	1.17E-02	-4.13E-03
Contribution to photochemical ozone formation - human health	kg COVNM eq	3.89E-02	1.57E-02	1.98E-02	6.35E-04	0*	2.76E-03	-1.14E-03
Contribution to resource use, minerals and metals	kg Sb eq	2.10E-06	3.51E-06	2.51E-10	1.09E-08	0*	0*	-5.31E-06
Contribution to resource use, fossils	MJ	1.44E+02	9.99E+01	3.63E+01	3.05E+00	0*	5.20E+00	-4.87E+00
Contribution to water use	m3 eq	1.66E+00	1.18E+00	1.48E-01	5.35E-02	0*	2.77E-01	-1.10E-01

Inventory flows Indicators		PanelSeT TBS - NSYTBS342912						
Inventory flows	Unit	Total (without Module D)	[A1 - A3] - Manufacturing	[A4] - Distribution	[A5] - Installation	[B1 - B7] - Use	[C1 - C4] - End of life	[D] - Benefits and loads
Contribution to use of renewable primary energy excluding renewable primary energy used as raw material	MJ	3.94E+00	3.56E+00	0*	4.02E-01	0*	0*	9.61E-01
Contribution to use of renewable primary energy resources used as raw material	MJ	5.97E+00	5.97E+00	0*	0*	0*	0*	-4.22E+00
Contribution to total use of renewable primary energy resources	MJ	9.91E+00	9.53E+00	0*	4.02E-01	0*	0*	-3.26E+00
Contribution to use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	1.13E+02	6.80E+01	3.63E+01	3.05E+00	0*	5.20E+00	-4.29E+00
Contribution to use of non renewable primary energy resources used as raw material	MJ	3.19E+01	3.19E+01	0*	0*	0*	0*	-5.78E-01
Contribution to total use of non-renewable primary energy resources	MJ	1.44E+02	9.99E+01	3.63E+01	3.05E+00	0*	5.20E+00	-4.87E+00
Contribution to use of secondary material	kg	5.79E-01	5.79E-01	0*	0*	0*	0*	0.00E+00
Contribution to use of renewable secondary fuels	MJ	0.00E+00	0*	0*	0*	0*	0*	0.00E+00
Contribution to use of non renewable secondary fuels	MJ	0.00E+00	0*	0*	0*	0*	0*	0.00E+00
Contribution to net use of freshwater	m^3	3.88E-02	2.77E-02	3.44E-03	1.25E-03	0*	6.44E-03	-2.56E-03
Contribution to hazardous waste disposed	kg	3.37E-02	2.95E-02	2.42E-03	7.63E-03	0*	0*	-4.25E-01
Contribution to non hazardous waste disposed	kg	6.77E+00	5.31E+00	2.97E-03	1.52E-01	0*	1.30E+00	-1.89E-01
Contribution to radioactive waste disposed	kg	3.90E-03	3.26E-03	5.80E-04	1.83E-05	0*	4.32E-05	-8.62E-05
Contribution to components for reuse	kg	0.00E+00	0*	0*	0*	0*	0*	0.00E+00
Contribution to materials for recycling	kg	7.55E-02	5.89E-02	0*	1.23E-02	0*	4.31E-03	0.00E+00
Contribution to materials for energy recovery	kg	0.00E+00	0*	0*	0*	0*	0*	0.00E+00
Contribution to exported energy	MJ	1.27E-02	2.22E-04	0*	1.25E-02	0*	4.27E-05	0.00E+00
* represents less than 0.01% of the total life cycle of the reference flow								
Contribution to biogenic carbon content of the product	kg de C	0.00E+00						
Contribution to biogenic carbon content of the associated packaging	kg de C	8.01E-02						

Mandatory Indicators		PanelSeT TBS - NSYTBS342912							
Impact indicators	Unit	[B1 - B7] - Use	[B1]	[B2]	[B3]	[B4]	[B5]	[B6]	[B7]
Contribution to climate change	kg CO2 eq	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to climate change-fossil	kg CO2 eq	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to climate change-biogenic	kg CO2 eq	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to climate change-land use and land use change	kg CO2 eq	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to ozone depletion	kg CFC-11 eq	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to acidification	mol H+ eq	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to eutrophication, freshwater	kg $(PO4)^{3-}$eq	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to eutrophication marine	kg N eq	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to eutrophication, terrestrial	mol N eq	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to photochemical ozone formation - human health	kg COVNM eq	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to resource use, minerals and metals	kg Sb eq	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to resource use, fossils	MJ	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to water use	m3 eq	0*	0*	0*	0*	0*	0*	0*	0*

Inventory flows Indicators		PanelSeT TBS - NSYTBS342912							
Inventory flows	Unit	[B1 - B7] - Use	[B1]	[B2]	[B3]	[B4]	[B5]	[B6]	[B7]
Contribution to use of renewable primary energy excluding renewable primary energy used as raw material	MJ	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to use of renewable primary energy resources used as raw material	MJ	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to total use of renewable primary energy resources	MJ	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to use of non renewable primary energy resources used as raw material	MJ	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to total use of non-renewable primary energy resources	MJ	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to use of secondary material	kg	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to use of renewable secondary fuels	MJ	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to use of non renewable secondary fuels	MJ	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to net use of freshwater	m^3	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to hazardous waste disposed	kg	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to non hazardous waste disposed	kg	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to radioactive waste disposed	kg	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to components for reuse	kg	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to materials for recycling	kg	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to materials for energy recovery	kg	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to exported energy	MJ	0*	0*	0*	0*	0*	0*	0*	0*

** represents less than 0.01% of the total life cycle of the reference flow*

Life cycle assessment performed with EIME version v6.1, database version 2023-02 in compliance with ISO14044, EF 3.0 method is applied, for biogenic carbon storage, assessment methodology 0/0 is used

Please note that the values given above are only valid within the context specified and cannot be used directly to draw up the environmental assessment of an installation.

Registration number :	SCHN-01143-V01.01-EN	*Drafting rules*	PCR-4-ed4-EN-2021 09 06
		Supplemented by	PSR-0005-ed3.1-EN-2023 12 08
Verifier accreditation N°	VH45	*Information and reference documents*	www.pep-ecopassport.org
Date of issue	07-2024	*Validity period*	5 years
Independent verification of the declaration and data, in compliance with ISO 14025 : 2006			
Internal	External X		
The PCR review was conducted by a panel of experts chaired by Julie Orgelet (DDemain)			
PEPs are compliant with XP C08-100-1:2016 and EN 50693:2019 or NF E38-500 :2022			
The components of the present PEP may not be compared with components from any other program.			
Document complies with ISO 14025:2006 "Environmental labels and declarations. Type III environmental declarations"			

Schneider Electric Industries SAS

Country Customer Care Center
http://www.se.com/contact

35, rue Joseph Monier

CS 30323

F- 92500 Rueil Malmaison Cedex

RCS Nanterre 954 503 439
Capital social 928 298 512 €

www.se.com

Published by Schneider Electric

SCHN-01143-V01.01-EN

07-2024