

Product name	Klapp Tür 100x210
Supplier name	Bash-tec GmbH
Supplier adress	Hoorwaldstraße 42, 57299 Burbach Holzhausen
Color	White; RAL 9016
	Anthracite; RAL 7016
Date	23th of June 2025

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1. Product characterization

1.1. Product functionality and intended use

Complete pre-assembled kit for an insect screen door for mounting at inwards/outwards opening doors. When mounted the insect screen prevents insects from entering the room and enables free and healthy air circulation while the door opening stays fully operational.

1.2. Parts list

No.	DESCRIPTION	LENGTH (MM)	MATERIAL	QTY
1	g2 klap corner L		PA6 10% GF	2
2	g2 klap corner S1		PA6 10% GF	4
3	g2 klap corner S2		PA6 10% GF	2
4	pin 8x3mm		stainless steel	4
5	g2 profile L	635	alu	2
6	g2 profile L + Bohrung	1035	alu	2
7	g2 profile SD	635	alu	2
8	g2 profile SD + Bohrung	635	alu	2
9	g2 profile SD	435	alu	2
10	g2 middle profile S (screw channels)	250	alu	2
11	g2 middle profile L	636	alu	1
12	magnet 25x6x3.8mm		Neodymium N42	2
13	omega profile	600	pvc black	6
14	mesh clamp profile	1040	pvc black	8
15	brush 4.8x4mm	3500	mohair, black	1
16	brush 4.8x7mm	3500	mohair, black	1
17	ViPer FG mesh 18x18.009 1.00x2.25m		Fiberglass+PVC	1
18.1	hinge set (3 hinges)			3
18.2	hinge part top		PA6	3
18.3	hinge part bottom		PA6	3
18.4	spring		stainless steel	3
18.5	screw 2.9x9.5mm countersunk		stainless steel	6
19.1	grip			1
19.2	g1 grip back		PA6	1
19.3	g1 grip front open		PA6	1
19.4	screw raised countersunk 2.9x9.5mm		stainless steel	3

20.1	screw bit PH1		steel	1
20.2	screw bit PH2		steel	1
20.3	screw panhead 3.5x50 PH2		stainless steel	8
20.4	screw 2.9x19mm countersunk		stainless steel	12
20.5	screw 2.9x9.5mm countersunk		stainless steel	4
20.6	magnet plate 2.5mm		zinc plated steel	2
20.7	Doublesided tape-pad			2
21.	Verpackung		full colour	1
22	Montageanleitung		paper	1
23	Sticker	28x17		1

1.3. Surface properties

Clean, no dents, burrs or other deformations allowed

The Surface of the Aluminum Profiles needs to be powder coated in sand optics

RAL9016 / RAL7016

2. Chemical details

2.1. Chemical requirements

All components are according to the current chemical requirements, which are included in the table below.

Pos	Substance	Limit from - Guideline	Method
1 Alkylphenol			
1.1	Nonylphenol (NP)	< 100mg/kg	extraction acc.to AfPS GS 201401 PAK, quantificatio acc.to DIN EN ISO 18-218-2:2015-11 by GC-MS
2 Chlorinated paraffins			
2.1	MCCP (Medium chained chlorinated parafins)	<0,1%(1.000 mg/kg)	ISO 18219:2015 (modified)
2.2	SCCP (short chained chlorinated paraffins)		
3 Flame retardants Non-ENE			
3.1	Hexabromobiphenyl	not used	ISO 17881-1 IEC62321-6 extended for hexabiphenyl
3.2	Hexabromcyclododecan (HBCDD)	< 100mg/kg	ISO 17881-1 IEC62321-6 extended or HBCCD
3.3	Tetrabromdiphenylether(TetraBDE)	Sum (TetraBDE, PentaBDE, HexBDE, HeptaBDE, DecaBDE) ≤ 500mg/kg	ISO 17881-1 IEC 62321-6
3.4	Pentabromdiphenylether (PentaBDE)		ISO 17881-1 IEC 62321-7
3.5	Hexabromdiphenylether(HexaBDE)		ISO 17881-1 IEC 62321-8
3.6	Heptabromdiphenylether(HeptaBDE)		ISO 17881-1 IEC 62321-9
3.7	Bis(pentabromphenyl)ether (Decabromdiphenylether; DecaBDE)		ISO 17881-1 IEC 62321-10
3.8	Diphenylether-Octabromderivat (OctaBDE)	< 100mg/kg	ISO 17881-1 IEC 62321-6

4 Organotin Compounds			
4.1	TBT	≤ 0,5 mg/kg	ISO/TS 16179:2012
4.2	DBT	≤ 1 mg/kg	
4.3	DOT		
4.4	MBT		
4.5	TTBT		
4.6	MOT		
4.7	TcyT		
4.8	TPT		
5 Polycyclic hydro carbons PAH			
	15 PAH compounds from Guideline	≤ 1 mg/kg	AfPS GS 2019:01 PAK
6 Phthalates			
	21 phthalate compounds from Guideline	< 0,075% by weight	ISO 14389:2014
7 Metal			
	cadmium total	<100mg/kg	ENE:IEC6231-3-1, IEC 6231-5
	lead total	<100mg/kg	ENE:IEC6231-3-1, IEC 6231-5
	SVHC for metal Lead, Mercury, Cadmium, Chromium VI in packaging	Packaging sum ≤ 100mg/kg	DIN EN 16711- 1:2015

3. FG 18x18.009 Mesh Specification

3.1. Product description

Application: insect protection screen

Technical characteristics⁽¹⁾

Property	Unit	Nominal Value	Tolerance
Application		For door and window insect protection	
Composition		PVC coated fiberglass	
Colors		Standard: black / gray / white (Customizable)	
Mesh Size	mesh/inch	18x18mesh / inch ²	± 1 wire
Yarn Diameter	mm	0.009" ≈ 0.2229	± 0.015
Area weight	g/sqm	85	± 5 g/sqm
Tensile Strength* (Breaking Strength)	N/25mm	Warp ≥ 230	ISO4892-3
	N/25mm	Weft ≥ 230	
Roll width	m	0.6 - 2.2	+6mm / -0
Roll length	m	0.8 - 300	+2% / -0
Packing	According to customer's requirements		
Chemical	REACH conform, PHTALATE-free, without PAK and NONYLPHENOL		
Mesh defect contro	The mesh surface is free of oil stains, dust, and unpleasant smell. No holes, uneven coating, uneven mesh, yarn bending, and weft skewed.		
Flame resistance	Extinguishes within 6 seconds after removal of flame source.		
Service life	Generally 3-5 years according to different environment such as humidity, temperature, sunlight intensity and external force.		
Storage conditions	Below 40 °C, dry environment, complete packaging, shelf life of 10 years.		

⁽¹⁾ Values presented above are nominal – subject to technical modifications.

4. Material Specification Al6063-T5

Aluminum 6063-T5

Component	Wt. %	Component	Wt. %	Component	Wt. %
Al	Max 97.5	Mg	0.45 - 0.9	Si	0.2 - 0.6
Cr	Max 0.1	Mn	Max 0.1	Ti	Max 0.1
Cu	Max 0.1	Other, each	Max 0.05	Zn	Max 0.1
Fe	Max 0.35	Other, total	Max 0.15		

Physical Properties	Metric	English	Comments
Density	2.7 g/cc	0.0975 lb/in ³	AA; Typical
Mechanical Properties			
Hardness, Brinell	60	60	AA; Typical; 500 g load; 10 mm ball
Ultimate Tensile Strength	186 MPa	27000 psi	AA; Typical
Tensile Yield Strength	145 MPa	21000 psi	AA; Typical
Elongation at Break	12 %	12 %	AA; Typical; 1/16 in. (1.6 mm) Thickness
Modulus of Elasticity	68.9 GPa	10000 ksi	AA; Typical; Average of tension and compression. Compression modulus is about 2% greater than tensile modulus.
Poisson's Ratio	0.33	0.33	
Fatigue Strength	68.9 MPa	10000 psi	AA; 500,000,000 cycles completely reversed stress; RR Moore machine/specimen
Shear Modulus	25.8 GPa	3740 ksi	
Shear Strength	117 MPa	17000 psi	AA; Typical
Electrical Properties			
Electrical Resistivity	3.16e-006 ohm-cm	3.49e-006 ohm-cm	AA; Typical at 68°F
Thermal Properties			
CTE, linear 68°F	23.4 µm/m-°C	13 µin/in-°F	AA; Typical; Average over 68-212°F range.
CTE, linear 250°C	25.6 µm/m-°C	14.2 µin/in-°F	Average over the range 20-300°C
Heat Capacity	0.9 J/g-°C	0.215 BTU/lb-°F	
Thermal Conductivity	209 W/m-K	1450 BTU-in/hr-ft ² -°F	AA; Typical at 77°F
Melting Point	616 - 654 °C	1140 - 1210 °F	AA; Typical range based on typical composition for wrought products 1/4 inch thickness or greater
Solidus	616 °C	1140 °F	AA; Typical
Liquidus	654 °C	1210 °F	AA; Typical
Processing Properties			
Annealing Temperature	413 °C	775 °F	hold at temperature for 2 to 3 hr; cool at 50 °F per hour from 775 to 500 °F
Solution Temperature	521 °C	970 °F	
Aging Temperature	182 °C	360 °F	hold at temperature for 1 hr