

Product name	Klapp Fenster 120x140
Supplier name	Bash-tec GmbH
Supplier adress	Hoorwaldstraße 42, 57299 Burbach Holzhausen
Color	White; RAL 9016
	Anthracite; RAL 7016
Date	23th of June 2024

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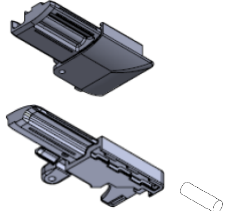


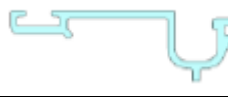





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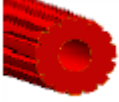
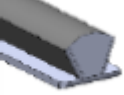

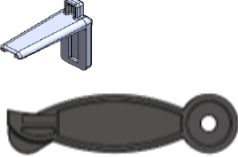
1. Product characterization

1.1. Product functionality and intended use

Complete kit for an insect screen window for mounting at inwards opening window. When mounted the insect screen prevents insects from entering the room and enables free and healthy air circulation for several years in all weather conditions.

1.2. Parts list

No.	Picture	Parts/Components	Material	Length	Qty
1		NYDY foldable corner part 1+ part 2 +metal pin	PA6	N/A	4
2		NYDY Telescope profile L (193.65 g / per meter)	Aluminium	620mm	2
3		NYDY telescope profile S (148.83 g / per meter)	Aluminium	580mm	2
4		NYDY profile filler - PVC	PVC	520mm	2
5		NYDY Telescope profile L (193.65 g / per meter)	Aluminium	720mm	2
6		NYDY telescope profile S (148.83 g / per meter)	Aluminium	680mm	2
7		NYDY profile filler - PVC	PVC	620mm	2
8		4mm hook short 5,5mm	Stainless Steel	N/A	2
9		4mm hook long 15,5mm	Stainless Steel	N/A	2
10		Ultra ViPer PET 18x18 Mesh	Polyethylen-terephthalat	120X140cm	1

No.	Picture	Parts/Components	Material	Length	Qty
11		Spline 5mm	Rubber	520cm	1
12		Brush 4,8x4mm		5160mm	1
13		Grip	PE	N/A	2
14		Spline tool + bending tool	ABS / PA 6	N/A	1

1.3. Tolerances of the individual profiles/components

No.	Parts/Components	Length	Tolerances
2	NYDY Telescope profile L (193.65 g / per meter)	620mm	+/-2mm
3	NYDY telescope profile S (148.83 g / per meter)	580mm	+/-2mm
4	N0YDY profile filler - PVC	520mm	+/-2mm
5	NYDY Telescope profile L (193.65 g / per meter)	720mm	+/-2mm
6	NYDY telescope profile S (148.83 g / per meter)	680mm	+/-2mm
7	NYDY profile filler - PVC	620mm	+/-2mm
10	PET Ultra ViPer Mesh	Widht: 1200mm Length: 1400mm	-0/+5mm -0/+5mm
11	Spline 5mm	5200mm	+/-10mm
12	Brush 4,8x4mm	5160mm	+10/-0mm

1.4. 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. Ultra ViPer Pet 18x18 Mesh Specification

3.1. Product description

Application: insect protection screen

Material: PET (Polyethylenterephthalat)

3.2. Technical characteristics

Property	Unit	Nominal Value	Tolerance
Composition		100% PET	
Mesh	Wires	18 x 18 / inch ²	+/- 1
Mesh width	mm	1,26 x 1,26	+/- 5%
Yearn thickness	mm	0,15	+/- 0,025
Open area	%	80	+/- 5%
Area weight	g/m ²	40	+/- 5%
Breaking strength	N	190	+/- 10%
Bursting strength	N/cm ²	n.a.	n.a.
Stiffness	mg	n.a.	n.a.
Fire resistance		n.a.	

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

3.3. Quality standard

General Information

- The material meets the REACH requirements.
- The material is nonylphenol free.
- The material meets the chemical requirements

Further technical properties on request.

3.4. Specification Mini Rolls

PET mesh has to be 1 st quality only	0 major defects		1 minor defect	
	Definition according to: <i>Order Specification Mini Rolls PET 18x18 1610.2019</i>			
Width	1200mm -0 / +5mm			
Length	1400mm -0 / +5mm			
Fixation of the roll	3 tapes		fixed 25 cm from the edges, third one fixed 60cm from one side / non-residue tapes have to be used	
Telescope effect (during wrapping)	Max. 5mm			
Straight cut at beginning and end of the roll				
Outer diameter depends on roll length	Length (m)	Diameter Ø (mm)	Tolerance (mm)	
	1,40	27	+2/-0mm	
Inner diameter	Diameter Ø (mm)		Tolerance (mm)	
	20		+/-1	

All other information need to be taken from:

Order Specification Mini Rolls PET 18x18 1610.2019

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