

1 Alpha-Tape zero® PP – General

Alpha-Tape zero®PP edge bandings are thermoplastic edgings developed for the decorative finishing of panels. They have a protective as well as a design function. The edge bandings are produced from PP (polypropylene) and completely homogenous.

2 Edge properties

The back side of Alpha-Tape zero® PP is provided with a hard, co-extruded functional layer. This layer can directly be melted with all current “zero joint processing methods”. These include the following methods: diode-laser, Hot-Air- and NIR (Near-Infra-Red) technology. The Alpha-Tape zero® PP edging bonds very well to the following workpieces: particleboard, MDF-boards and PP-honeycomb boards.

If you have further questions regarding carrier material please feel free to contact SSI North America.

Technical data sheet

3 Delivery program

Design

- UL** Plain colors coated
- HR** Decors coated

Profile type

Alpha-Tape zero® PP	Width	Thickness
KB Edge banding	12.0 - 60.0 mm	0.50 - 3.20 mm¹
	60.0 - 105.0 mm	0.50 - 2.00 mm¹
SR Jumbo Roll (for slitting)	405.0 mm	0.50 - 3.20 mm¹

¹ Includes Functional layer

4 Limits

Thickness	Lower limit		Upper limit		Width	Lower limit		Upper limit	
0.40 - 0.80 mm	- 0.05 mm	+ 0.05 mm			12.0 - 405.0 mm	- 0.20 mm			+0.50 mm
0.90 - 1.00 mm	- 0.15 mm	+ 0.10 mm							
1.10 - 1.60 mm	- 0.20 mm	+ 0.10 mm							
1.70 - 2.00 mm	- 0.25 mm	+ 0.05 mm							
2.10 - 3.20 mm	- 0.30 mm	+ 0.05 mm							

Thickness of the functional layer 0.20 mm
 Limits of the functional layer + 0.10 / - 0.05 mm

5 Level parallelism

All available widths < 0.10 mm

6 Pre-tension

Width < 60 mm 0.00 - 0.35 mm
 Width > = 60 mm > 0.10 mm

6 Longitudinal deformation

All available widths and lengths < 3.0 mm / 1m

Technical data sheet

8 Color ²

Alpha-Tape zero® PP <u>UN</u> uncoated <u>UL</u> coated	L - value	C - value	Spectra magic	Limits
White colors	> 90	< 5	Delta E	0.5
Medium colors	70 - 90	< 60	Delta E	0.8
Dark colors	30 - 70	< 40	Delta E	1.5

² According to CIE Lab

9 Gloss ³

Alpha-Tape zero® PP <u>UL</u> ⁴ coated <u>HR</u> Decors	Gloss Scale	Limits
	5° - 30° 31° - 70°	- 2 / + 5 ± 5

³ Measuring angle 60°

⁴ UN: No fixing of gloss level possible

10 Processing on CNC machine center

In order to find the suitable Alpha-Tape® edging for your required radii application, please contact SSI North America. PP-edgings are highly suitable for radii due to extremely low stress whitening level. We are looking to assist you with the optimization of machine settings/parameters.

Technical data sheet

11 Properties

Alpha-Tape zero® PP	Value	Standard for testing
Fastness to light	7 - 8	ISO 4892-2
Softening point	> 120°	ISO 306
Shrinkage	< 0.5%	MKT standard
Hardness	~ 75	DIN ISO 7619-1
Scratch resistance (Erichsen Test 318 No. 1) ⁵	4 - 6 N	MKT standard
Chemical resistance ⁶	1 B	DIN 68861, Pt. 1 (LGA tested)

⁵ Not Valid for UN uncoated

⁶ Exception: acetone, etyl-butylacetate

12 Energy parameter

Alpha - Tape zero® PP	Value	Dimension	Comment
Processing with diode - Laser 940 - 1040			
White and light colors	22	j/cm ²	
Black and dark colors	14	j/cm ²	
Processing with Hot-Air	For parameter please contact SSI North America		
Processing with NIR			

13 Cleaning

For cleaning Alpha - Tape zero® PP-edge bandings MKT recommends special plastic cleaning agents. First test on a small sample. Never use alcohol-based or solvent-based cleaners.

14 Storage conditions

Stored under proper conditions - on a dry and cool place (<30°C), protected from direct sunlight and dust, Alpha - Tape zero® edge bandings are applicable for a minimum period of one year.

WARNING AGAINST PATENT INFRINGEMENT!

Alpha-Tape zero® PP edge bandings are intended for use outside of Germany only. Delivery of Alpha-Tape zero® PP edge bandings and of products provided with Alpha-Tape zero® PP edge bandings to Germany is not permitted. The company Moderne Kunststoff-Technik | Gebrüder Eschbach GmbH hereby declares that it does not agree with the delivery of Alpha-Tape zero® PP edge bandings or to products provided with Alpha-Tape zero® PP edge bandings to Germany.