

# Technical Data sheet of A-PET Film

**Product name:** APET clear A/B/A quality

**Characteristic:** A-PET film for thermoforming, laminating

**Surface:** Without treatment and silicone coating

**Thickness range:** 150 – 1200 µm

**Widths:** 80 – 1800 mm

**Layer:** A/B/A (10%/80%/10%)

**Colours:** CLEAR, COLOURED on request

**Additives:** Antiblock-slip agent SUKANO S479-HP-C (internal)

We hereby confirm that our film is designed to get in direct contact with watery, sour, fatty, alcohol containing and hot food products for human consumption. If the temperature of foodstuff is 70 - 100 °C – contact time should not exceed 15 min.

We hereby declare that our film can contain up to 50 % of Veolia PET bottle flakes (suitable to get in direct contact with foodstuff) in outside layers.

The product herewith complies with the essential requirements of EU directives:

10/2011/EC, 82/711/EEC; 85/572/EEC; 92/39/EEC; 93/43/EEC; 94/62/EC; 1935/2004/EEC; 2023/2006

as well as with the changes and addendum to the above requirements,

and Lithuania's Hygiene Norm HN 16:2006 "Destination and special usage conditions of material or a product, designed to get in direct contact with food", confirmed by Minister of Health of the Republic of Lithuania on 2011 May 2nd.

Properties:	Test method	Value	Unit
Thickness tolerances	DIN 53270:2006	150 – 300 ± 4 % 301 – 500 ± 3 % 501 – 900 ± 2,5 % 901 – 1200 ± 2 %	µm
Unit weight	EN ISO 2286-2	150 – 300 ± 10 % 301 – 600 ± 7 % 601 – 1200 ± 5 %	g/m <sup>2</sup>
Colour	DIN 5033	Visual control	
Width tolerances	EN ISO 1923:1995	± 1	mm
Density	EN ISO 1183-2:2004	1,34	g/cm <sup>3</sup>
Melting Point	EN ISO 11357-3:2013	245	°C
Intrinsic viscosity (IV)	ASTM D2857	0,60 – 0,75	dL/g
Tensile strength	EN ISO 527-3:1995	65 – 70	N/mm <sup>2</sup>
Impact strength	EN ISO 6256:2004	≥ 250	kJ/m <sup>2</sup>
Coefficient of friction	EN ISO 8293:2004	0,2 – 0,4	-
Vicat softening point	EN ISO 306:2004	90	°C
Surface tension	ASTM D 2578	38	dyn
Shrinkage (Oven 125 °C 2 min.)	lengthwise	2 – 4	%
Thickness 400 µm	cross	1 – 2	%
Gas transmission CO <sub>2</sub> O <sub>2</sub> N <sub>2</sub>	DIN 53380	14 2,3 0,4	cm <sup>3</sup> / m <sup>2</sup> · 24h · bar
Water vapour transmission 23 °C 85 % RH	EN ISO 15106-3:2003	0,5	g / m <sup>2</sup> · 24h · bar
Dirt / Black points	Detector / visual (Black points shall not lead to thermoforming issues)	≥ 0,20 – ≤ 1 mm <sup>2</sup> - max 8; > 1 mm <sup>2</sup> - max 1	n / 10 m <sup>2</sup>
Fish eyes	Detector / visual (Fish eyes shall not lead to thermoforming issues)	< 1 mm <sup>2</sup> - allowed; ≥ 1 - ≤ 3 mm <sup>2</sup> - max 30; > 3 mm <sup>2</sup> - max 2	n / 10 m <sup>2</sup>
Flies and insects	Detector / visual	none	
Pinholes	Visual	none	
Deep Thermoforming		Suitable	
Thermoforming Temperature		≥ 120	°C
Barrier characteristics		Good	
Application temperature		Min. -35, Max. +70	°C
Colouring		Possible	



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