



Biaxially Oriented PA-film

Technical Data Sheet

BIAXIS BOPA 12 STD

General Properties

	Unit	Value	Standard / Test method
Thickness	µm	12 +/-10%	DIN 53370
Melting Point	°C	220 +/- 2	ISO 3146-C / DSC
Density	g/cm ³	1,15 +/- 0,01	ISO 1183
Haze	%	≤ 5	ASTM D 1003
Shrinkage	% (MD / TD), 160°C, 5 min	≤ 2,5 / ≤ 2,5	DIN EN ISO 11501
Friction (non-treated)	Stat. / dyn.; Film / Alu	< 0,40 / < 0,40	DIN EN ISO 8295, ASTM D 1894
Treatment level	dynes/cm (treated / not treated)	> 45 / > 37	DIN ISO 8296, ASTM D 2578

Mechanical Properties

	Unit	Value	Standard / Test method
Tensile Strength	N/mm ² (MD / TD)	>210 / >210	DIN EN ISO 527, ASTM D 882
Elongation at Break	% (MD / TD)	115 / 90 +/- 30	DIN EN ISO 527, ASTM D 882
Puncture Resistance	N	>6	DIN EN 14477
Flex-Crack	holes / dm ²	<1	ASTM F 392-74

All mechanical values are according to 2 sigma level

Barrier Properties

	Unit	Value	Standard / Test method
O ₂ Transmission Rate	cm ³ / m ² , 24h, bar	80 *)	DIN 53380-3, ASTM D 3985 23°C, 0% RH
		40 *)	DIN 53380-3, ASTM D 3985 23°C, 50% RH
WV Transmission Rate	g/m ² , 24h	60 *)	DIN 53122, ASTM E 96 23°C, 85% RH

*) Typical value

All the rawmaterials used in Biais films fulfill the requirements for food packaging as specified by the latest EU- and FDA-regulations.

The recommendations and data given are based on our experience to date, but no liability can be assumed in connection with their usage.

Values are valid on print date 3.12.2021

BIAXIS BOPA STD
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Postal Address

Telephone

Telefax

VAT Reg.No.

Biaxis Oy Ltd.
Teknikonkatu 2
FIN-15520 LAHTI
FINLAND

+358 (0)20 510 312
E-mail:info@biaxis.com

+358 (0)20 510 3500

FI01161156

Trade Reg. No.
189.266