

## Technical Data Sheet for BIAxis-Met Films

General Properties	Units	BIAxis 8 - Met	BIAxis 9 - Met	BIAxis 10 - Met	BIAxis 12 - Met	BIAxis 15 - Met	Standard / Test Method
Thickness	Gauge	32 ± 3%	36 ± 3%	40 ± 3%	48 ± 3%	60 ± 3%	Basis Weight (ABI)
Yield	in <sup>2</sup> / lb.	76,500 ± 3%	68,800 ± 3%	61,200 ± 3%	51,000 ± 3%	40,800 ± 3%	Calculated
Melting Point	°F	428 ± 4	428 ± 4	428 ± 4	428 ± 4	428 ± 4	ISO 3146-C / DSC
Dimensional Stability	% (MD / TD)	< 2.5 / < 1.5	< 2.5 / < 1.5	< 2.5 / < 1.5	< 2.5 / < 1.5	< 2.5 / < 1.5	320°F, 5 min (ABI)
<b>Mechanical Properties</b>							
Tensile Strength	psi	> 32,000	> 32,000	> 32,000	> 32,000	> 32,000	ASTM D 882
Elongation at Break	% (MD / TD)	120 / 100 ± 30	120 / 100 ± 30	120 / 100 ± 30	120 / 100 ± 30	120 / 100 ± 30	ASTM D 882
Puncture Resistance	lbf	> 2.0	2.2	> 2.5	> 2.9	> 3.6	Pointed Probe (ABI)
Flex-Crack	holes / 15.5 in <sup>2</sup>	< 1	< 1	< 1	< 1	< 1	900 cycles (ABI)
<b>Surface Tension</b>							
Metallized side	dynes / cm	> 44	> 44	> 44	> 44	> 44	ASTM D 2579
Non-metallized side		> 42	> 42	> 42	> 42	> 42	
<b>Optical Properties</b>							
Optical Density	Macbeth Units	> 2.2	> 2.2	> 2.2	> 2.2	> 2.2	Macbeth
<b>Barrier Properties</b>							
O <sub>2</sub> Transmission Rate	cm <sup>3</sup> / 100in <sup>2</sup> / 24h	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	73°F, 50% RH; ASTM D 3985
WV Transmission Rate		< 1.9	< 1.9	< 1.9	< 1.9	< 1.9	

BIAxis film: complies with FDA regulation 21 CFR, Part 177, Subpart B, Paragraph 177.1500,  
 is approved for meat, cheese, seafood and liquid packing by the Canadian Food Inspection Agency,  
 complies with European Directive 90/128 EEC relating to materials in direct contact with food.

Recommendations and data given are based on experience to date. No liability can be assumed in connection with their usage.

## Technical Data Sheet for BIAxis-Met Films

General Properties	Units	BIAxis 8 - Met	BIAxis 9 - Met	BIAxis 10 - Met	BIAxis 12 - Met	BIAxis 15 - Met	Standard / Test Method
Thickness	µm	8 ± 3%	9 ± 3%	10 ± 3%	12 ± 3%	15 ± 3%	Basis Weight (ABI)
Yield	m <sup>2</sup> / kg	109 ± 3%	98.0 ± 3%	87.0 ± 3%	72.5 ± 3%	58.0 ± 3%	Calculated
Melting Point	°C	220 ± 2	220 ± 2	220 ± 2	220 ± 2	220 ± 2	ISO 3146-C / DSC
Dimensional Stability	% (MD / TD)	< 2.5 / < 1.5	< 2.5 / < 1.5	< 2.5 / < 1.5	< 2.5 / < 1.5	< 2.5 / < 1.5	160°C, 5 min (ABI)
<b>Mechanical Properties</b>							
Tensile Strength	MPa	> 220	> 220	> 220	> 220	> 220	ASTM D 882
Elongation at Break	% (MD / TD)	120 / 100 ± 30	120 / 100 ± 30	120 / 100 ± 30	120 / 100 ± 30	120 / 100 ± 30	ASTM D 882
Puncture Resistance	N	> 9	> 10	> 11	> 13	> 16	Pointed Probe (ABI)
Flex-Crack	holes / dm <sup>2</sup>	< 1	< 1	< 1	< 1	< 1	900 cycles (ABI)
<b>Surface Tension</b>							
Metallized side	dynes / cm	> 44	> 44	> 44	> 44	> 44	ASTM D 2579
Non-metallized side		> 42	> 42	> 42	> 42	> 42	
<b>Optical Properties</b>							
Optical Density	Macbeth Units	> 2.2	> 2.2	> 2.2	> 2.2	> 2.2	Macbeth
<b>Barrier Properties</b>							
O <sub>2</sub> Transmission Rate	cm <sup>3</sup> / m <sup>2</sup> / 24h	< 2.9	< 2.9	< 2.9	< 2.9	< 2.9	23°C, 50% RH; ASTM D 3985
WV Transmission Rate		< 29	< 29	< 29	< 29	< 29	

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