

# MPB SECURE BLOWN MACHINE FILM

## .60 mil

### Product Description

Sigma Secure blown machine film has maximum load containment and puncture resistance. Designed for bonding between layers and reduced tailing. Performs well in extreme environments. Ideal for heavy C type loads. Available in widths from 20 inches to 30 inches.

### Applications

Brick and block	Large/heavy bagged products
Warehouse	Magazines and paper products
Irregular loads	Roofing materials
Transportation industry	Extreme environments
Food distribution	Heavy weight loads



Film Properties	Typical Value (English)	Tolerance	Test Method
Tensile Strength at Yield MD	1600 psi	N/A	N/A
Tensile Strength at Yield TD	1700 psi	± 15%	ASTM D882
Tensile Strength at Break MD	7000 psi	± 15%	ASTM D882
Tensile Strength at Break TD	4900 psi	± 15%	ASTM D882
Elongation at Break MD	500%	± 15%	ASTM D882
Elongation at Break TD	700%	± 15%	ASTM D882
Protrusion Puncture	9.0 lbs.	± 15%	ASTM D5748
Protrusion Puncture Energy	15.0 in-lb	± 15%	ASTM D5748
Elmendorf Tear Strength MD	160 g/mil	± 15%	ASTM 1922
Elmendorf Tear Strength TD	790 g/mil	± 15%	ASTM 1922
Cling - Outside to Inside @ 225%	min 150 g/in	± 15%	ASTM D5458

Dimensions	Value	Tolerance
Core ID	3.05 inches	± 0.05%
Film Thickness	15.2 micron	

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# MPB SECURE BLOWN MACHINE FILM

## .70 mil

### Product Description

Sigma Secure blown machine film has maximum load containment and puncture resistance. Designed for bonding between layers and reduced tailing. Performs well in extreme environments. Ideal for heavy C type loads. Available in widths from 20 inches to 30 inches.

### Applications

Brick and block	Large/heavy bagged products
Warehouse	Magazines and paper products
Irregular loads	Roofing materials
Transportation industry	Extreme environments
Food distribution	Heavy weight loads



Film Properties	Typical Value (English)	Tolerance	Test Method
Tensile Strength at Yield MD	1600 psi	N/A	N/A
Tensile Strength at Yield TD	1700 psi	± 15%	ASTM D882
Tensile Strength at Break MD	7000 psi	± 15%	ASTM D882
Tensile Strength at Break TD	4900 psi	± 15%	ASTM D882
Elongation at Break MD	520%	± 15%	ASTM D882
Elongation at Break TD	730%	± 15%	ASTM D882
Protrusion Puncture	9.3 lbs.	± 15%	ASTM D5748
Protrusion Puncture Energy	18.0 in-lb	± 15%	ASTM D5748
Elmendorf Tear Strength MD	160 g/mil	± 15%	ASTM 1922
Elmendorf Tear Strength TD	750 g/mil	± 15%	ASTM 1922
Cling - Outside to Inside @ 225%	min 150 g/in	± 15%	ASTM D5458

Dimensions	Value	Tolerance
Core ID	3.05 inches	± 0.05%
Film Thickness	17.8 micron	

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# MPB SECURE BLOWN MACHINE FILM

## .80 mil

### Product Description

Sigma Secure blown machine film has maximum load containment and puncture resistance. Designed for bonding between layers and reduced tailing. Performs well in extreme environments. Ideal for heavy C type loads. Available in widths from 20 inches to 30 inches.

### Applications

Brick and block	Large/heavy bagged products
Warehouse	Magazines and paper products
Irregular loads	Roofing materials
Transportation industry	Extreme environments
Food distribution	Heavy weight loads



Film Properties	Typical Value (English)	Tolerance	Test Method
Tensile Strength at Yield MD	1600 psi	N/A	N/A
Tensile Strength at Yield TD	1700 psi	± 15%	ASTM D882
Tensile Strength at Break MD	6900 psi	± 15%	ASTM D882
Tensile Strength at Break TD	4900 psi	± 15%	ASTM D882
Elongation at Break MD	550%	± 15%	ASTM D882
Elongation at Break TD	750%	± 15%	ASTM D882
Protrusion Puncture	9.5 lbs.	± 15%	ASTM D5748
Protrusion Puncture Energy	20.0 in-lb	± 15%	ASTM D5748
Elmendorf Tear Strength MD	150 g/mil	± 15%	ASTM 1922
Elmendorf Tear Strength TD	750 g/mil	± 15%	ASTM 1922
Cling - Outside to Inside @ 225%	min 150 g/in	± 15%	ASTM D5458

Dimensions	Value	Tolerance
Core ID	3.05 inches	± 0.05%
Film Thickness	20.3 micron	

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# MPB SECURE BLOWN MACHINE FILM

## .90 mil

### Product Description

Sigma Secure blown machine film has maximum load containment and puncture resistance. Designed for bonding between layers and reduced tailing. Performs well in extreme environments. Ideal for heavy C type loads. Available in widths from 20 inches to 30 inches.

### Applications

Brick and block	Large/heavy bagged products
Warehouse	Magazines and paper products
Irregular loads	Roofing materials
Transportation industry	Extreme environments
Food distribution	Heavy weight loads



Film Properties	Typical Value (English)	Tolerance	Test Method
Tensile Strength at Yield MD	1600 psi	N/A	N/A
Tensile Strength at Yield TD	1700 psi	± 15%	ASTM D882
Tensile Strength at Break MD	6900 psi	± 15%	ASTM D882
Tensile Strength at Break TD	4900 psi	± 15%	ASTM D882
Elongation at Break MD	550%	± 15%	ASTM D882
Elongation at Break TD	750%	± 15%	ASTM D882
Protrusion Puncture	9.5 lbs.	± 15%	ASTM D5748
Protrusion Puncture Energy	20.0 in-lb	± 15%	ASTM D5748
Elmendorf Tear Strength MD	150 g/mil	± 15%	ASTM 1922
Elmendorf Tear Strength TD	750 g/mil	± 15%	ASTM 1922
Cling - Outside to Inside @ 225%	min 150 g/in	± 15%	ASTM D5458

Dimensions	Value	Tolerance
Core ID	3.05 inches	± 0.05%
Film Thickness	23 micron	

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# MPB SECURE BLOWN MACHINE FILM

## 1.20 mil

### Product Description

Sigma Secure blown machine film has maximum load containment and puncture resistance. Designed for bonding between layers and reduced tailing. Performs well in extreme environments. Ideal for heavy C type loads. Available in widths from 20 inches to 30 inches.

### Applications

Brick and block	Large/heavy bagged products
Warehouse	Magazines and paper products
Irregular loads	Roofing materials
Transportation industry	Extreme environments
Food distribution	Heavy weight loads



Film Properties	Typical Value (English)	Tolerance	Test Method
Tensile Strength at Yield MD	1600 psi	N/A	N/A
Tensile Strength at Yield TD	1500 psi	± 15%	ASTM D882
Tensile Strength at Break MD	6800 psi	± 15%	ASTM D882
Tensile Strength at Break TD	4900 psi	± 15%	ASTM D882
Elongation at Break MD	600%	± 15%	ASTM D882
Elongation at Break TD	800%	± 15%	ASTM D882
Protrusion Puncture	11.7 lbs.	± 15%	ASTM D5748
Protrusion Puncture Energy	30.0 in-lb	± 15%	ASTM D5748
Elmendorf Tear Strength MD	150 g/mil	± 15%	ASTM 1922
Elmendorf Tear Strength TD	750 g/mil	± 15%	ASTM 1922
Cling - Outside to Inside @ 225%	min 150 g/in	± 15%	ASTM D5458

Dimensions	Value	Tolerance
Core ID	3.05 inches	± 0.05%
Film Thickness	30.5 micron	

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